One Hundred and Forty-Ninth
Annual Report of the Trustees

of

THE MASSACHUSETTS GENERAL HOSPITAL

Including the General Hospital in Boston
and the
McLean Hospital in Belmont

For the Year
1962
Officers and Staff
1963

BOSTON : MASSACHUSETTS

FORMS OF LEGACIES

A. *An Unrestricted Legacy*

"I give to The Massachusetts General Hospital, a corporation organized under the laws of Massachusetts and situated in Boston, Massachusetts, ...($)."

Money given in this way may be used by the Hospital for any purpose within the scope of its powers. Both principal and income may be so used.

B. *A Legacy Restricted as to Principal but Not Restricted as to Income*

"I give to The Massachusetts General Hospital, a corporation organized under the laws of Massachusetts and situated in Boston, Massachusetts, ...($). The principal of this gift shall be held and may be mingled with other funds of the Hospital for investment. The Hospital may expend the income for any purpose within the scope of its powers. (The following sentence is optional.) This gift is made in memory of ..... and shall be known as the ..... Fund."

Money given in this way establishes a permanent fund.

C. *A Legacy Intended for a Special Purpose*

Where either principal or income of a bequest is to be restricted to some special purpose of the Hospital, it is suggested that the testator contact the Treasurer's Office, 45 Milk Street, Boston.

Member of United Community Services of Metropolitan Boston

Member of American Hospital Association

Accredited by the Joint Commission on Accreditation of Hospitals of the United States and Canada

Approved by American Medical Association for Residencies and Internships

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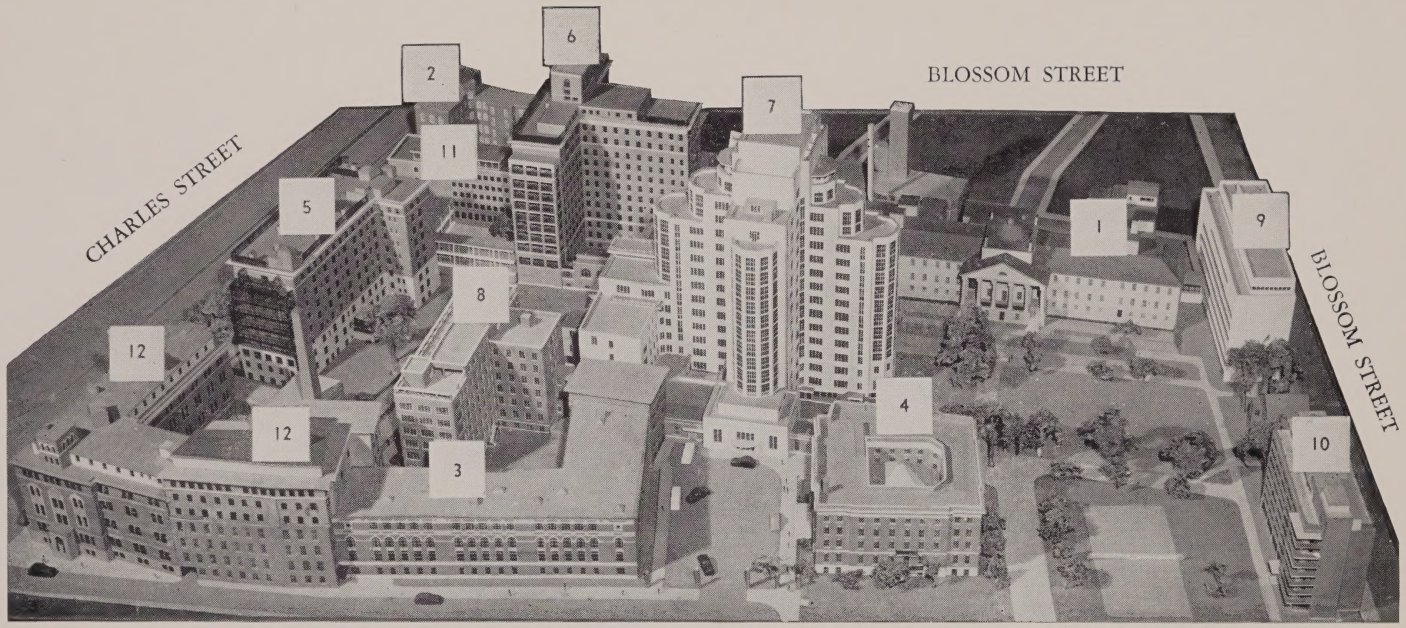

FRUIT STREET

THE MASSACHUSETTS GENERAL HOSPITAL

1. Bulfinch Building (1821); 2. Thayer House Nurses' Residence (1883); 3. The Clinics Building (1903); 4. Moseley Building (1916); 5. Phillips House (1917); 6. Baker Memorial (1930); 7. George Robert White Building (1939); 8. Vincent Memorial Hospital and Burnham Memorial for Children (1947); 9. Research Building (1951); 10. Bartlett Hall Nurses' Residence (1953); 11. Warren Building (1956); 12. *Massachusetts Eye and Ear Infirmary* (1899).

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OF

THE MASSACHUSETTS GENERAL HOSPITAL

Including the General Hospital in Boston

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ASSOCIATE TRUSTEES: Francis W. Hatch, Edwin W. Hiam, George Putnam and Elliot L. Richardson

*Appointed by the Governor of the Commonwealth

BOSTON · MASSACHUSETTS

Information

THE MASSACHUSETTS GENERAL HOSPITAL is a private, incorporated institution supported solely by voluntary contributions and the receipts from those patients who pay board. It consists of three main divisions: The General Hospital for those unable to pay for private medical care, The Baker Memorial with private and semi-private accommodations, and the Phillips House, the private pavilion. All three divisions are for the care of acutely ill persons, or for such chronic cases as can be substantially relieved by hospitalization of short duration. In addition, Storrow House, located in Lincoln, Massachusetts, is for convalescent patients no longer in need of hospital nursing care.

THE GENERAL HOSPITAL

Entrance: Fruit Street, end of North Grove Street. Telephone—LA 3-8200.

Arrangements for the admission of patients to the General Hospital should be made at the Admitting Office in the George Robert White Building (Extension 2214).

Emergencies are admitted at any hour; arrangements should be made by telephone. Persons injured by accident or overcome by acute illness may come to the Emergency Ward at the Hospital entrance at any time.

The Clinics of the Massachusetts General Hospital and the Massachusetts Eye and Ear Infirmary, open for admission from 8:15 a.m. to 10:00 a.m. and from 1:00 p.m. to 3:00 p.m., are for patients who can not afford the cost of private medical care. Appointments may be made by mail, telephone, or personal application at the Admitting Desk.

THE BAKER MEMORIAL

Entrance: Same as the General Hospital. Telephone — LA 3-8200.

The Baker Memorial is for patients of moderate means. Arrangements for admission should be made at the Admitting Office in The Baker Memorial (Extension 446).

Patients may be referred by any physician, but may be attended only by members of the Staff of the Massachusetts General Hospital and the Massachusetts Eye and Ear Infirmary.

THE PHILLIPS HOUSE

Entrance: 265 Charles Street. Telephone—LA 3-8200.

Information about admission may be obtained at the Phillips House Admitting Office. Patients may be referred by any physician, but may be attended only by members of the Staff of the Massachusetts General Hospital and the Massachusetts Eye and Ear Infirmary.

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April and October
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May and November
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June and December
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August
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January 1964
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February 1964
Messrs. Lowell and Brace

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Staff

VISITING STAFF

MEDICAL DIVISION

GENERAL MEDICINE

Chief of Medical Services

Walter Bauer, M.D.

Consulting Visiting Physicians

Edward F. Bland, M.D.
Charles L. Short, M.D.

Physicians

Myles P. Baker, M.D.
Earle M. Chapman, M.D.
Daniel S. Ellis, M.D.
Dana L. Farnsworth, M.D.
Bernard M. Jacobson, M.D.
Alfred Kranes, M.D.
Alexander Leaf, M.D.
Jacob Lerman, M.D.
Francis C. Lowell, M.D.
Marian W. Ropes, M.D.
John B. Stanbury, M.D.
Conger Williams, M.D.
Paul C. Zamecnik, M.D.

Associate Physicians

William H. Baker, M.D.
William S. Beck, M.D.
Perry J. Culver, M.D.
Briant L. Decker, M.D.
Allan L. Friedlich, M.D.
Harriet L. Hardy, M.D.
Reed Harwood, M.D.
Kurt J. Isselbacher, M.D.
Rita M. Kelley, M.D.
John H. Knowles, M.D.
Janet W. McArthur, M.D.
Gordon S. Myers, M.D.
Arthur S. Pier, Jr., M.D.
Walter W. Point, M.D.
Lloyd H. Smith, Jr., M.D.
John D. Stoeckle, M.D.
Morton N. Swartz, M.D.
Louis Weinstein, M.D.
Edwin O. Wheeler, M.D.

Assistant Physicians

Irving P. Ackerman, M.D.
Alan C. Aisenberg, M.D.
John C. Angley, M.D.
K. Frank Austen, M.D.
Victor G. Balboni, M.D.
Kenneth T. Bird, M.D.
Milton H. Clifford, M.D.
Richard A. Field, M.D.
Anne P. Forbes, M.D.
Gerald S. Foster, M.D.
William Franklin, M.D.
Joseph W. Gardella, M.D.
Frederick T. Hatch, M.D.
Benjamin L. Huntington, M.D.
Stephen M. Krane, M.D.
Farahe Maloof, M.D.
Lot B. Page, M.D.
John T. Quinby, M.D.
Walter T. St. Goar, M.D.
Guillermo C. Sanchez, M.D.
W. Davies Sohier, Jr., M.D.
George P. Sturgis, M.D.
Arthur L. Watkins, M.D.
Richard G. Whiting, M.D.

Assistants in Medicine

David W. Allen, M.D.
George P. Baker, Jr., M.D.
Francis G. Barnum, Jr., M.D.
Patricia H. Benedict, M.D.
*Kurt J. Bloch, M.D.
James H. Currens, M.D.
John C. Dalton, M.D.
Leslie J. DeGroot, M.D.
Roman W. DeSanctis, M.D.
Alvin Essig, M.D.
Daniel D. Federman, M.D.
Andrew G. Frantz, M.D.
Howard S. Frazier, M.D.
*Mehran Goulian, M.D.
Thomas C. Hall, M.D.
John Homans, Jr., M.D.
John W. Irwin, M.D.
H. Walter Jones, Jr., M.D.
Kenneth E. Jones, M.D.
Robert H. Jones, M.D.
Lewis W. Kane, M.D.
John W. Keller, M.D.
Bernard Kliman, M.D.
John W. Littlefield, M.D.
William F. McNeely, M.D.
Donald B. Martin, M.D.
Edwin P. Maynard, III, M.D.
John A. Mills, M.D.
Maurice M. Pechet, M.D.
Sholem Postel, M.D.
Mitchell T. Rabkin, M.D.
Charles A. Sanders, M.D.
Allan I. Sandler, M.D.
John H. Sisson, M.D.
Frank A. Warner, M.D.
Arnold N. Weinberg, M.D.

Applied Physicist

Gordon L. Brownell, PH.D.

Associate Applied Physicist

Saul Aronow, PH.D.

Associate Biologists

Nancy L. R. Bucher, M.D.
Jerome Gross, M.D.

Assistant Physicists

William H. Ellett, M.SC.
Kathleen Stratton, PH.D.

Associate Biophysicist

Jesse F. Scott, M.D.

Biochemists

Lewis L. Engel, PH.D.
Roger W. Jeanloz, PH.D.

Associate Biochemists

John Gergely, M.D.
Barbara Wright Kalckar, PH.D.
Robert B. Loftfield, M.D.

Assistant Biochemists

Donald G. Comb, PH.D.
Sen-itiroh Hakomori, M.D.
Shelby Kashket, PH.D.
Marvin R. Lamborg, PH.D.
*Mary J. Spiro, PH.D.
Mary Louise Stephenson, PH.D.
Chuan-Tao Yu, PH.D.

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*7.1.63

Associate Immunologist
Sidney Leskowitz, PH.D.

Consulting Assistant Immunologist
Edna M. Follensby, PH.D.

Consultant in Mathematics to the Physics Research Laboratory
George P. Wadsworth

1962

DERMATOLOGY

Chief of Service
Thomas B. Fitzpatrick, M.D., PH.D.

Dermatologist
Maurice M. Tolman, M.D.

Associate Dermatologist
John Adams, Jr., M.D.

Assistant Dermatologists
Ruth K. Freinkel, M.D.
Earl A. Glicklich, M.D.
Robert D. Griesemer, M.D.
Milton E. Helman, M.D.
Philip L. McCarthy, M.D.
Robert F. Tilley, M.D.

Assistants in Dermatology
Leroy D. Aaronson, M.D.
William L. Curwen, M.D.
Charles S. Keuper, M.D.
Myron H. Matz, M.D.
Arthur S. Spangler, M.D.

Associate Biochemist
Irvin H. Blank, PH.D.

Associate Biologist
George Szabó, PH.D.

Assistant Biochemists
Jean B. Burnett, PH.D.
Madhukar A. Pathak, PH.D.
Robert Scheuplein, PH.D.
George F. Wilgram, M.D.

Assistant Biologist
~~Robert Scheuplein, PH.D.~~ 11-15-63 take coupons

NEUROLOGY

Chief of Service
Raymond D. Adams, M.D.

Neurologists
Mandel E. Cohen, M.D.
Edwin M. Cole, M.D.
Philip R. Dodge, M.D.
C. Miller Fisher, M.D.
Robert S. Schwab, M.D.

Associate Neurologists

Pierre M. Dreyfus, M.D.
Vincent P. Perlo, M.D.
William H. Timberlake, M.D.
Edward P. Richardson, M.D.
Henry deF. Webster, M.D.

Assistant Neurologists

Hugo W. Moser, M.D.
Ernest H. Picard, M.D.
David C. Poskanzer, M.D.
Richard L. Sidman, M.D.
Karel van Syckel Toll, M.D.

Assistants in Neurology

Albert C. England, Jr., M.D.
Robert E. Flynn, M.D.
Ruth E. Stauffer, M.D.
Alfred D. Weiss, M.D.
*Gerald F. Winkler, M.D.

Neurophysiologist

John S. Barlow, M.D.

Psychologist

Murray Sidman, PH.D.

Associate Psychologist

James G. Holland, PH.D.

Assistant Psychologist

Lawrence T. Stoddard, PH.D.

Associate Bacteriologist

Byron H. Waksman, M.D.

PSYCHIATRY

Chief of Service

Erich Lindemann, M.D., PH.D.

Psychiatrists

Gerald Caplan, M.D.
Paul M. Howard, M.D.
John C. Nemiah, M.D.
Gardner C. Quarton, M.D.
Alfred H. Stanton, M.D.
Elizabeth R. Zetzel, M.D.

Associate Psychiatrists

Henry H. Brewster, M.D.
Herbert Barry, Jr., M.D.
Morris E. Chafetz, M.D.
*Frank R. Ervin, M.D.
*Richmond Holder, M.D.
John H. Lamont, M.D.
*Jack H. Mendelson, M.D.
David E. Reiser, M.D.
Peter E. Sifneos, M.D.
Jerome L. Weinberger, M.D.
Avery D. Weisman, M.D.

Assistant Psychiatrists

Jason A. Aronson, M.D.
Clemens E. Benda, M.D.
Norman R. Bernstein, M.D.
Frances J. Bonner, M.D.
Robert L. Bragg, M.D.
Franklin Carter, M.D.

*Hall-Mercer Hospital Staff

Daniel C. Dawes, M.D.
William H. Eger, M.D.
Phillip H. Gates, M.D.
Benjamin F. Gill, M.D.
*Thomas P. Hackett, M.D.
Helen M. Herzan, M.D.
Pierre Johannet, M.D.
Samuel Kaplan, M.D.
Maria Lorenz, M.D.
Walter Mann, M.D.
Milton Mazer, M.D.
Edward Messner, M.D.
Maxwell G. Potter, M.D.

Assistants in Psychiatry

Herbert S. Cline, M.D.
Lucille P. Carter, M.D.
Gerald E. Davidson, M.D.
Frederick J. Duhl, M.D.
Abraham L. Finesinger, M.D.
Herbert O. LeVine, M.D.
William Sharpe, Jr., M.D.
William R. Shelton, M.D
Jackson M. Thomas, M.D.

Psychologists

Marc A. Fried, PH.D.
Judy F. Rosenblith, PH.D.
*George A. Talland, PH.D.
John M. von Felsinger, PH.D.

Associate Psychologists

Howard T. Blane, PH.D.
Donald C. Klein, PH.D.
Richard R. Peebles, PH.D.
Irving Wolf, PH.D.
Clara Weiss Mayo, PH.D.

Assistant Psychologists

Frank M. Buckley, PH.D.
John P. Hill, PH.D.
Douglas F. Hooper, PH.D.
Philip E. Kubzansky, PH.D.
Nancy Mello, PH.D.
Ralph Schwitzgebel, ED.D.

Assistant Sociologists

*Louisa P. Howe, PH.D.
Irving K. Zola, PH.D.

Assistant in Mathematics

Stephen Lorch

Consultant in Biomathematics

Theodore A. Kalin, SC.B.

CHILDREN'S SERVICE

Chief of Service

Nathan B. Talbot, M.D.

Pediatricians

Leo B. Burgin, M.D.
John D. Crawford, M.D.
Philip R. Dodge, M.D.
Robert N. Ganz, M.D.
Ralph A. Ross, M.D.

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*Hall-Mercer Hospital Staff

Associate Pediatricians

T. Berry Brazelton, M.D.
William A. Dickson, M.D.
LeRoy L. Eldredge, Jr., M.D.
Lawrence J. Essember, M.D.
Sprague W. Hazard, M.D.
Richard B. Kearsley, M.D.
Thomas C. Peebles, M.D.
Gertrud C. Reyersbach, M.D.
Robert H. Richie, Jr., M.D.
Robert T. Sceery, M.D.
Mary Louise Scholl, M.D.
Rudolf Toch, M.D.
Richard H. Watson, M.D.
Eleonore C. Zaudy, M.D.

Assistant Pediatricians

James J. A. Cavanaugh, M.D.
William D. Cochran, M.D.
John P. Connelly, M.D.
James E. Drorbaugh, M.D.
Nathan H. Fearer, M.D.
George A. Glines, M.D.
Robert J. Haggerty, M.D.
Joseph J. McGovern, M.D.
Edward F. McGrath, M.D.
Charlotte G. Neumann, M.D.
William Pfeffer, Jr., M.D.
Charles V. Pryles, M.D.
Edward F. Rabe, M.D.
John S. Robey, M.D.
Marion L. Slemons, M.D.
Wilhelmina Van Dyke, M.D.
Dorothy B. Villee, M.D.
Thomas J. Whitfield, III, M.D.

Assistants in Pediatrics

William J. Adelson, M.D.
Donald J. Annino, M.D.
Arnold D. Fiascone, M.D.
Thomas Frank, M.D.
Andrew D. Guthrie, Jr., M.D.
Herbert A. Haessler, M.D.
*John B. Joseph, M.D.
Murray K. Rosenthal, M.D.
Jordan S. Ruboy, M.D.
Lois M. Smedley, M.D.
Alan Ziskind, M.D.

Associate Psychologist

Marvin Snider, PH.D.

Staff assigned from other Services and Departments

General Surgery:
W. Hardy Hendren, III, M.D.
William C. Quinby, Jr., M.D.
Bradford Cannon, M.D.
W. Gerald Austen, M.D.
J. Gordon Scannell, M.D.
John D. Constable, M.D.

Neurosurgery:
Vernon H. Mark, M.D.

Orthopedic Surgery:
J. Drennan Lowell, M.D.
Carter R. Rowe, M.D.

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Urological Surgery:	Guy W. Leadbetter, M.D.
Psychiatry:	Frank R. Ervin, M.D. Richmond Holder, M.D.
Neurology:	Philip R. Dodge, M.D.
Dental Medicine:	David Weisberger, D.M.D., M.D.
Anesthesia:	Phillips Hallowell, M.D.

SURGICAL DIVISION

GENERAL SURGERY

Chief of Surgical Services

Paul S. Russell, M.D.

Visiting Surgeons

Marshall K. Bartlett, M.D.
Bradford Cannon, M.D.
Oliver Cope, M.D.
Gordon A. Donaldson, M.D.
Edward Hamlin, Jr., M.D.
William V. McDermott, Jr., M.D.
J. Gordon Scannell, M.D.
Claude E. Welch, M.D.

Associate Visiting Surgeons

F. Thomas Gephart, M.D.
Thomas H. Green, Jr., M.D.
Hermes C. Grillo, M.D.
Francis M. Ingersoll, M.D.
George L. Nardi, M.D.
John W. Raker, M.D.
Grant V. Rodkey, M.D.
Robert S. Shaw, M.D.
Frank C. Wheelock, Jr., M.D.
Earle W. Wilkins, Jr., M.D.

Assistant Surgeons

Benjamin A. Barnes, M.D.
Glenn E. Behringer, M.D.
John F. Burke, M.D.
Celso-Ramon Garcia, M.D.
John M. Head, M.D.
W. Hardy Hendren, M.D.
Roy E. Mabrey, M.D.
John B. McKittrick, M.D.
Charles G. Mixter, Jr., M.D.
William C. Quinby, Jr., M.D.
George S. Richardson, M.D.
William P. Rogers, Jr., M.D.

Assistants in Surgery

W. Gerald Austen, M.D.
Edwin L. Carter, M.D.
John D. Constable, M.D.
R. Clement Darling, M.D.
Stephen E. Hedberg, M.D.
Charles E. Huggins, M.D.
Ronald A. Malt, M.D.
Edwin W. Salzman, M.D.
Chiu-an Wang, M.D.

ANESTHESIA

Chief of Service

Henry K. Beecher, M.D.

Anesthetists

Henrik Holt Bendixen, M.D.
Donald P. Todd, M.D.

Associate Anesthetists

John W. D. Garrett, M.D. Phillips Hallowell, M.D.
Henning Pontoppidan, M.D.

Assistant Anesthetists

Lawrence D. Egbert, M.D. Eliot Macy Slater, M.D.
Myron B. Laver, M.D. Herman Turndorf, M.D.
— Resigns 3.15.63

Assistants in Anesthesia

George E. Battit, M.D. *Leo T. Kelly, M.D.
Michael H. M. Dykes, M.D. Susanne J. Lamdin, M.D.
John Hedley-Whyte, M.D. Bucknam McPeek, M.D.
Thomas J. Keenan, M.D. Talbot D. Seigne, M.D.
Sarita G. Walzer, M.D.

GYNECOLOGY

Chief of Service

Howard Ulfelder, M.D.

Staff shared with General Medical and Surgical Services

NEUROSURGERY

Chief of Service

William H. Sweet, M.D., D.SC.

Visiting Neurosurgeon

H. Thomas Ballantine, Jr., M.D.

Assistant Neurosurgeon

Vernon H. Mark, M.D.

Assistants in Neurosurgery

Hannibal Hamlin, M.D. Raymond N. Kjellberg, M.D.
Robert G. Ojemann, M.D.

Associate Biochemist in Neurosurgery

Adelbert Ames, III, M.D.

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*On leave of absence

Associate Chemist in Neurosurgery
Albert H. Soloway, PH.D.

Assistant Biophysicist in Neurosurgery
Stanley Bullivant, PH.D.

Assistant Neurophysiologist
Padmaker P. Lele, M.D., PH.D.

ORTHOPEDIC SURGERY

Chief of Service
Joseph S. Barr, M.D.

Consulting Visiting Orthopedic Surgeon
Edwin F. Cave, M.D.

Visiting Orthopedic Surgeons
Otto E. Aufranc, M.D. Thornton Brown, M.D.
Paul L. Norton, M.D.

Assistant Orthopedic Surgeons
Thomas L. DeLorme, M.D. Eugene E. Record, M.D.
William N. Jones, M.D. John A. Reidy, M.D.
William R. MacAusland, Jr., M.D. Carter R. Rowe, M.D.
Morten Smith-Petersen, M.D.

Assistants in Orthopedic Surgery
Robert B. Brendze, M.D. William L. Kermond, M.D.
Melvin J. Glimcher, M.D. J. Drennan Lowell, M.D.
William H. Harris, M.D. Richard A. Mayo, M.D.
Edward A. Nalebuff, M.D.

Podiatrist
John F. Kelly, D.S.C.

Assistant Podiatrists
John D. McLean, D.S.C. Hugh J. O'Rourke, D.S.C.
Homer J. Squires, D.S.C.

UROLOGY

Chief of Service
Wyland F. Leadbetter, M.D.

Consulting Visiting Urologist
Sylvester B. Kelley, M.D.

Visiting Urologist
Howard I. Suby, M.D.

Associate Visiting Urologist
Walter S. Kerr, Jr., M.D.

Assistant Urologists
Guy W. Leadbetter, Jr., M.D.
Edward C. Parkhurst, M.D.
Lorande M. Woodruff, M.D.

Assistants in Urology
Joshua J. Hurwitz, M.D.
Harold A. Rudy, M.D.

DENTAL MEDICINE

Oral Surgeon and Chief of Dental Medicine
David Weisberger, D.M.D., M.D.

Assistant Oral Surgeons

Neville A. Booth, D.M.D.
Harold A. Carnes, D.M.D.
Henry J. Carney, D.M.D.
George Christman, D.M.D.
Walter C. Guralnick, D.M.D.
Richard L. Miner, D.D.S.
Earle H. Rosenberg, D.M.D.
Norman Trieger, D.M.D.

Dental Surgeons

Harold A. Bratt, D.M.D.
Peter A. Dempsey, D.M.D.
Charles H. Endee, D.M.D.
Henry D. Howe, D.M.D.
Owen W. Kite, D.D.S.
Glenn W. Lawrence, D.M.D.
Robert C. Lincoln, D.M.D.
Morton J. Olin, D.M.D.
Frederick K. Poulin, D.M.D.
Donald B. Rae, D.D.S.
Frank I. Rhodes, D.M.D.
Keith A. Shangraw, D.M.D.
J. Henry Stempien, D.M.D.
Earle J. Waddington, D.M.D.

Assistant Dental Surgeons

William L. Cosgrove, D.M.D.
Julius J. Levitan, D.M.D.
Joseph C. Oakley, D.M.D.
Symon C. Polansky, D.M.D.
William H. Tingey, Jr., D.M.D.
John B. Taylor, D.D.S.

DEPARTMENTS

PATHOLOGY

Chief of Department
Benjamin Castleman, M.D.

Pathologists
Robert E. Scully, M.D. Edgar B. Taft, M.D.
Austin L. Vickery, Jr., M.D.

Associate Pathologists
Wallace H. Clark, Jr., M.D. Richard B. Cohen, M.D.

Associate Visiting Pathologist
Ronald C. Sniffen, M.D.

Assistant Pathologists
Leonard Atkins, M.D. Martin H. Flax, M.D.
James B. Caulfield, M.D. Priscilla Dienes Taft, M.D.

Assistants in Pathology
Karoly Balogh, M.D. George F. Kwass, M.D.
Sanford I. Roth, M.D.

Neuropathologists
Raymond D. Adams, M.D. Edward P. Richardson, M.D.

Associate Neuropathologist
C. Miller Fisher, M.D.

Assistant Neuropathologist
Henry deF. Webster, M.D.

BIOCHEMICAL RESEARCH

Henry S. Wellcome Research Biochemist
Herman M. Kalckar, M.D., PH.D.

Assistant Biochemists
Kaney Ebisuzaki, PH.D. Hiroshi Nikaido, M.D., PH.D.
Annette M. C. Rapin, PH.D.

Research Associate
Robert A. Darrow, PH.D.

BACTERIOLOGY

Bacteriologist
Lawrence J. Kunz, PH.D.

Assistant Bacteriologist
Barbara K. Watson, PH.D.

CLINICAL CHEMISTRY LABORATORIES

Chief
Sidney V. Rieder, M.D.

RADIOLOGY

Chief of Department
Laurence L. Robbins, M.D.

Radiologists
Milford D. Schulz, M.D.
Stanley M. Wyman, M.D.

Associate Radiologists
Jack R. Dreyfuss, M.D.
J. Malcolm MacNeill, M.D.
Paul F. J. New, M.D.
Majic S. Potsaid, M.D.
Chiu-chen Wang, M.D.

Consulting Visiting Radiologist
Richard Schatzki, M.D.

Assistant Radiologists
John F. Bacon, M.D.
Robert E. Dinsmore, M.D.
†Douglass H. Howry, M.D.
Henry P. Pendergrass, M.D.
Frederick S. Tomchik, M.D.
Alfred L. Weber, M.D.

Assistants in Radiology
†Delbert J. Heslin, M.D.
James A. Rourke, M.D.
†Harry H. Shawdon, M.R.C.P., D.M.R.D.
Frank P. Shea, M.D.
*Louis Wener, M.D.
Walter T. Weylman, M.D.

Engineer
Malcolm Mackay

Physicist
Edward W. Webster, PH.D.

Assistant Physicist
Eugene T. Agard, M.SC.

PHYSICAL MEDICINE

Chief of Physical Medicine
Arthur L. Watkins, M.D.

Assistant in Physical Medicine
Dorothy E. Ford, M.D.

*On leave of absence
†When Mass. license received

BLOOD BANK AND TRANSFUSION SERVICE

Director
Morten Grove-Rasmussen, M.D.

Assistant Director
Robert S. Shaw, M.D.

CONSULTANTS

Consultant in Medicine
Benjamin G. Ferris, M.D.

Consultants in Preventive Medicine
John E. Gordon, M.D. David D. Rutstein, M.D.

Consultant in Tropical Diseases
George C. Shattuck, M.D.

Consultant in Neuropathology
Paul I. Yakovlev, M.D.

Consultants to Children's Service
William Berenberg, M.D. Louis K. Diamond, M.D.
Stewart H. Clifford, M.D. Alexander S. Nadas, M.D.
Clement A. Smith, M.D.

Consultant in Biophysics in Neurosurgery
Eugene Bell, M.SC., PH.D.

Consultants to Orthopedic Service
Morris Cohen, PH.D. Robert J. Hansen, SC.D.
George Scatchard, PH.D.

Consultant in Pathology
Walter G. J. Putschar, M.D.

Consultants in Forensic Pathology
Richard Ford, M.D. Michael A. Luongo, M.D.

Consultants in Radiology
Giulio J. D'Angio, M.D. Edward B. D. Neuhauser, M.D.

Consultants in Physics
Robley D. Evans, PH.D. John G. Trump, D.SC.

Consultant in Neurophysiology
Alexander Forbes, M.D.

Consultants in Pharmacology
Oleg Jardetzky, M.D., PH.D. Otto Krayer, M.D.

Consultant in Mathematics
to the
Physics Research Laboratory
George P. Wadsworth

Consultant in Biomathematics
Theodore A. Kalin, SC.B.

Consulting Assistant Immunologist
Edna M. Follensby, PH.D.

ASSOCIATE STAFF

Clinical Associates in Medicine

John G. Freymann, M.D.
John R. Graham, M.D.
David Littmann, M.D.
Sylvester McGinn, M.D.
Henry D. Stebbins, M.D.
Frederic Tudor, M.D.
Arthur A. Wills, Jr., M.D.
John W. Zeller, M.D.

Clinical Associates in Dermatology

Joseph Albert, M.D.
Howard P. Baden, M.D.
Clito R. Damiani, M.D.
Irwin M. Freedberg, M.D.
John L. Fromer, M.D.
Basil C. Gray, M.D.
William R. Hill, M.D.
*Burnham E. Lamkins, M.D.
Sabino J. Sinesi, M.D.

Clinical Associates in Psychiatry

Arthur W. McMahon, M.D.
Lionelle D. Wells, M.D.

Clinical Associates in Children's Service

Elroy E. Anderson, M.D.
Doris R. Bennett, M.D.
Albert Cohen, M.D.
John A. Duggan, M.D.
Edward C. Dyer, M.D.
John G. Flynn, M.D.
Theodore S. Golden, M.D.
Joseph L. Lewis, M.D.
Alexander S. MacDonald, Jr., M.D.
Francis C. McDonald, M.D.
James A. O'Shea, M.D.
Walter Pick, M.D.
Leonard H. Plotkin, M.D.
Joseph F. Stocks, M.D.
Robert F. Wilson, M.D.

Clinical Associates in Surgery

Richard C. Austin, M.D.
Donald V. Baker, Jr., M.D.
Martin J. Bellinger, M.D.
Charles B. Burbank, M.D.
Richard R. Curtin, M.D.
Chester J. Dexter, M.D.
George F. Emerson, M.D.
Edward L. Ferguson, M.D.
Gerald G. Garcelon, M.D.
Frank W. Garran, Jr., M.D.
Walter E. Garrey, M.D.
Ward I. Gregg, M.D.
Irad B. Hardy, M.D.
Clement A. Hiebert, M.D.
Joseph A. Holmes, M.D.
William K. McClelland, M.D.
George A. Marks, M.D.
Carroll C. Miller, M.D.
Joseph E. Murray, M.D.
Spiros P. Sarris, M.D.
James M. Shannon, M.D.
Lamar Soutter, M.D.
Richard H. Thompson, M.D.
Masao Yatsuhashi, M.D.

Clinical Associate in Neurosurgery

Jost J. Michelsen, M.D.

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*7.1.63

Clinical Associate in Orthopedic Surgery
Thomas F. Broderick, Jr., M.D.

Clinical Associate in Urology
Emil J. Ganem, M.D.

Clinical Associates in Dental Medicine
Herman DeWilde, D.M.D.
Norton Fishman, D.M.D.
Daniel J. Holland, Jr., D.D.S.
George M. Noss, D.M.D.
Howard C. Reith, D.M.D.
Charles E. Rounds, D.M.D.
Edward L. Sleeper, D.D.S.

Clinical Associate in Pathology
Robert Fienberg, M.D.

Clinical Associates in Radiology
Joseph Hanelin, M.D.
H. Peter Mueller, M.D.
Richard G. O'Brien, M.D.

Clinical Associates in Obstetrics
Robert H. Barker, M.D.
A. Gordon Gauld, M.D.
John L. Newell, M.D.
Charles P. Sheldon, M.D.
Bartlett H. Stone, M.D.

CLINICAL ASSISTANTS

Medicine
Donnell W. Boardman, M.D.
Arthur E. Brown, M.D.
Albert I. C. DeFriez, M.D.
John Denovian, M.D.
Anne F. Godley, M.D.
William A. Hall, M.D.
Charles S. Keevil, Jr., M.D.
Louis Kunian, M.D.
Alice Lowell, M.D.
Joseph M. Miller, M.D.
Robert K. Osborne, M.D.
Edward S. Rendall, M.D.
Raymond J. Savignac, M.D.
Oscar E. Starobin, M.D.
Gordon DuF. Winchell, M.D.

Dermatology
Nicholas J. Fiumara, M.D.

Psychiatry
Joseph H. Brenner, M.D.
Robert L. Kelley, M.D.

Surgery
James M. Doonan, M.D.
Paul F. Gryska, M.D.
Eugene A. Guralnick, M.D.
Theodore M. Leary, M.D.
Peter J. Mozden, M.D.
Rudolph W. Pierce, M.D.
Aram Roopenian, M.D.
John L. Rowbotham, M.D.
D. Albert Young, M.D.

Neurosurgery

C. Norman Shealy, M.D. R. Lewis Wright, M.D.

Orthopedic Surgery

Verner S. Johnson, M.D. Edwin J. Madden, M.D.

Pathology

Sheldon Cooperman, M.D. G. Richard Dickersin, M.D.
Robert S. Harper, M.D.

Radiology

John B. Little, M.D. James A. Peterson, M.D.
D. Glyn Millard, M.D. John T. Pollard, Jr., M.D.
Clinton B. Seeley, M.D.

HOUSE STAFF

Residents and Interns
As of January 1, 1963

Medicine

Chief Resident: Hibbard E. Williams, M.D.

Residents:

Caesar Briefer, M.D. Richmond Prescott, M.D.
Homayoun Kazemi, M.D. Robert H. Schapiro, M.D.
Hugh H. Kopald, M.D. William E. Strole, M.D.
Martin J. Wohl, M.D.

Assistant Residents:

Robert E. Burke, M.D. Alan S. Keitt, M.D.
George P. Canellos, M.D. Alfred Leitner, M.D.
Norman R. Cohen, M.D. Philip W. Majerus, M.D.
Howard B. Corning, M.D. John C. Parker, M.D.
Shalom Z. Hirschman, M.D. Kenneth I. Shine, M.D.
Newton E. Hyslop, Jr., M.D. James F. Spann, Jr., M.D.

Interns:

J. Michael Bishop, M.D. Robert C. Moellering, Jr., M.D.
Verne S. Caviness, Jr., M.D. William A. Robinson, M.D.
David T. Harper, Jr., M.D. George N. Rogentine, Jr., M.D.
Edward D. Harris, Jr., M.D. John N. Sheagren, M.D.
Brian E. Henderson, M.D. Philip F. Sparling, M.D.
James R. Lehrich, M.D. Herbert S. Waxman, M.D.

Dermatology

Resident: Burnham E. Lamkins, M.D.

Assistant Resident: Kenneth A. Arndt, M.D.

Neurology

Resident: Arthur K. Asbury, M.D.

Assistant Residents:

Joshua Hollander, M.D. Shyam S. Pant, M.D.
Robert R. Young, M.D.

Psychiatry

Assistant Residents:

Peter T. Choras, M.D. Alexandra M. Kail, M.D.
Theodore Dreier, Jr., M.D. Aleksander Mathé, M.D.

Children's

Chief Resident: John T. Truman, M.D.

Assistant Residents:

Christopher R. Eliot, M.D. Gabriel B. Mirkin, M.D.
Murray Feingold, M.D. June E. Osborn, M.D.
Robert M. Kline, M.D. Stephen L. Reynolds, M.D.
Stephan M. Marcy, M.D. Lester F. Soyka, M.D.

Interns:

Harvey E. Cantor, M.D. Eugene L. Klenk, M.D.
Rosmary C. Dobson, M.D. Eileen M. Oullette, M.D.
Michael A. Zwardling, M.D.

Surgery

Residents:

Louis H. Edmunds, Jr., M.D. Anthony P. Monaco, M.D.

First Assistant Residents:

Frederick W. Ackroyd, M.D. Charles F. McKhann, III, M.D.
Jack J. Greenberg, M.D. Donald M. McKee, M.D.
Alf E. Gundersen, M.D. Anthony S. Patton, M.D.

Second Assistant Residents:

Joseph R. Barrie, M.D. Gustave C. E. Mueller, M.D.
John D. Burrington, M.D. Leslie W. Ottinger, M.D.
James R. Callison, M.D. Don C. Pearl, Jr., M.D.
Moses J. Folkman, M.D. John T. Porvaznik, Jr., M.D.
Nicoll F. Galbraith, Jr., M.D. John P. Remensnyder, Jr., M.D.
Mark M. Kartchner, M.D. David B. Skinner, M.D.
Nelson R. Lampert, M.D. George M. Williams, M.D.
S. Bert Litwin, M.D. Richard H. Wohl, M.D.
Gerald M. Moss, M.D. Livingston M. F. Wong, M.D.

Third Assistant Residents:

William M. Abbott, M.D. Josef E. Fischer, M.D.
Lyall S. Crary, Jr., M.D. Elwin E. Fraley, M.D.
William B. DeLong, M.D. Thomas R. Hakala, M.D.

Michael E. Jabaley, M.D. Dale E. Wenlund, M.D.
Bruce E. Zawacki, M.D.

Interns:

Ann R. Brace, M.D. Michael N. Margolies, M.D.
Alfred J. Defalco, M.D. George A. May, Jr., M.D.
Dexter W. Lawson, M.D. William R. Moore, M.D.
Ralph A. W. Lehman, M.D. Dennis D. O'Keefe, M.D.
Peter B. Mansfield, M.D. Robert L. Waldron, II, M.D.
LeRoy S. Wirthin, M.D.

Neurosurgery

Chief Resident: Clyde N. Shealy, M.D.

Resident: Raleigh L. Wright, M.D.

Assistant Residents:

Edward P. Baker, Jr., M.D. Murray H. Helfant, M.D.
Jerald S. Brodkey, M.D. Earl F. Jordan, M.D.
Harold A. Wilkinson, M.D.

Anesthesia

Chief Resident: Roger H. Morris, M.D.

Assistant Residents:

Edward F. Balius, M.D. Rita A. Manzi, M.D.
Bob Bullwinkel, M.D. William McDonald, M.D.
Peter A. Del Guidice, M.D. John D. Murphy, M.D.
Ronald W. Dunbar, M.D. Patrick F. Noone, M.D.
Joan W. Flacke, M.D. Charles A. Rodman, II, M.D.
Howard A. Trachtenberg, M.D.

Orthopedics

Resident: David C. Mitchell, M.D.

Assistant Residents:

Lynn L. Ault, M.D. James G. Manson, M.D.
Michael H. Bell, M.D. Maureen K. Molloy, M.D.
William C. Bostic, III, M.D. Arthur M. Pappas, M.D.
Robert J. Boyd, M.D. Philip I. Salib, M.D.
Richard E. Conway, M.D. William G. Stewart, Jr., M.D.
Khalil Germanos, M.D. Edgar B. Thompson, III, M.D.
Gordon F. Lupien, M.D. Seymour Zimbler, M.D.

Urology

Resident: William L. Strickler, M.D.

Assistant Residents:

John P. Donohue, M.D. Ruben F. Gittes, M.D.
Richard C. Hirschhorn, M.D.

Pathology

Resident: John F. Barlow, M.D.

Assistant Residents:

John B. Blennerhassett, M.D.
Francisco Civantos, M.D.
Larry J. Embree, M.D.
F. Daniel Foley, M.D.
James M. Gibson, M.D.
Norman G. Helgeson, M.D.
Lewis P. James, Jr., M.D.
Herbert I. Krickstein, M.D.

Interns: Sheldon S. Baddock, M.D.

Radiology

Residents:

Stanley P. Bohrer, M.D.
Nathan T. Griscom, M.D.
Robert A. Nebesar, M.D.
James J. Pollard, M.D.

Assistant Residents:

Melvin E. Clouse, M.D.
Murray L. Janower, M.D.
Luiz F. deQ. Mattoso, M.D.
Abbott R. Miller, M.D.
William J. Otto, Jr., M.D.
Lawrence C. Sack, M.D.
Richard J. Steckel, M.D.
Roland G. Ware, Jr., M.D.

Dental

Resident: Peter G. Kimball, D.M.D.

Interns: Barry J. Agranat, D.M.D.
Donald L. Leake, D.M.D.

CLINICAL AND RESEARCH FELLOWS
MEDICINE

Echampati R. Acharyulu, M.D.
Babatunde Kwaku Adadevoh, M.D.
William H. Batchelor, M.D.
Peter L. Bergquist, PH.D.
John A. Bolzan, M.D.
Donald L. Bornstein, M.D.
Jack Braunwald, M.D.
Arthur B. Callahan, PH.D.
Robert W. Carey, M.D.
John R. Collins, M.D.
Paul A. Crabbe, M.D.
Albert Damon, M.D.
Eric Engel, M.D.
David S. Feingold, M.D.
Harold M. Flowers, PH.D.
George Fostiropoulis, M.D.
Joseph W. Fowler, III, M.D.
Robert P. Germanos, M.D.
Kerstin G. C. Gezelius, PH.D.
Mehran Goulian, M.D.
Norton J. Greenberger, M.D.
Anund A. Hallen, M.K.
John W. Harthorne, M.D.
Thomas D. R. Hockaday, M.D.
Lore G. Hopff, M.D.
R. Colin Hughes, PH.D.
Andrew Huvos, M.D.
Jorgen G. Jacobsen, M.D.
Valerie E. Jones, PH.D.
Sharad G. Joshi, PH.D.
Robert E. Kahn, M.D.
Philip C. Kelleher, M.D.
Jan Koch-Weser, M.D.
Gabriel T. Koroxenidis, M.D.
Arthur S. Kunin, M.D.
Charles M. Lapiere, M.D.

Norman S. Lichtenstein, M.D.
Austra Likais, M.D.
Gordon K. MacLeod, M.D.
Ian F. Macrae, M.D.
Donald McCaughan, M.D.
Regina C. McCormack, M.D.
Kilmer S. McCully, M.D.
West T. Moore, M.D.
Leonard A. Moroz, M.D.
John A. Myhill, M.SC.
Yutaka Nagai, PH.D.
Charles A.M.Y. Nagant de Deuxchaines, M.D.
Hans B. Nevinny-Stickel, M.D.
James C. Orr, PH.D.
Toshiaki Osawa, PH.D.
Robert S. Pinals, M.D.
Aldo Pinchera, M.D.
Marc R. Playoust, M.D.
Gerald R. Plotkin, M.D.
Mudunde Raju, D.SC.
Echampati Ramagopalacharyulu, M.D.
Erika E. Randerath, PH.D.
Kurt Randerath, M.D.
William E. Reeves, M.D.
Alistair G. C. Renwick, M.B.
Jack R. Rishikof, M.D.
Paul A. Rudnick, M.D.
Hugues Ryser, M.D.
Lewis Sasse, M.D.
Robert L. Scheig, M.D.
Eugen Schmid, M.D.
Jules R. Schwaber, M.D.
Nathan Sharon, PH.D.
Geoffrey W. G. Sharp, PH.D.
Jeremiah E. Silbert, M.D.
Shyam P. Singh, M.D.
Edward L. Socolow, M.D.
Mary Jane Spiro, PH.D.
Isadore Starr, M.D.
Kanji Torizuka, M.D.
Gentaro Usuku, M.D.
R. Bruce Wilcox, PH.D.
Neil R. Williams, PH.D.
William J. Yount, M.D.

Klaus A. Zuppinger, M.D.

Dermatology

Joseph W. Burnett, M.D.
Arthur Z. Eisen, M.D.
Richard Masters, M.D.
Robert B. Scoggins, M.D.

Hitoshi Takahashi, M.D.

Psychiatry

Harold Abramowitz, M.D.
Gerald Adler, M.D.
Ernest W. Bergel, M.D.
Ernest Beroz, M.D.
Samuel J. Braun, M.D.
Douglas Buchanan, M.D.
Hilda Dickoff, PH.D.
Gerhart A. Duda, M.D.
Matthew P. Dumont, M.D.
Frederick M. Ehrlich, M.D.
Donald J. Fern, M.D.
Bruce W. Fischberg, M.D.
Freddy H. Frankel, M.D.
Eda M. Kahana, M.D.
Martin Kantor, M.D.
Olga Sears Karplus, M.A.
Miguel A. Leibovich, M.D.
William F. McCourt, M.D.
James J. Muller, M.A.
Nancy T. P. Nichols, M.D.
*Harry S. Olin, M.D.
George W. Rever, M.D.

Jack O. Rice, M.D.

*Hall-Mercer Fellow

Byron N. Rudolph, M.D.
Yoichi Saito, M.D.
Lawrence C. Salveson, M.D.
Evelyne Schwaber, M.D.
Judith Sharir, M.A.
Danuta M. Stachiewiez, M.D.
Larry H. Strasburger, M.D.
Captane P. Thomson, M.D.
Peter H. van der Walde, M.D.
Harold W. Williams, Jr., M.D.
Jacob C. Wolterbeek, M.D.

Children's

Margaret H. MacGillivray, M.D.
Barry I. Pless, M.D.

Neurology

Peter H. Berman, M.D.
Hiram B. Curry, M.D.
Larry J. Embree, M.D.
T. Corwin Fleming, M.D.
Gwendolyn R. Hogan, M.D.
Peter R. Huttenlocher, M.D.
John B. Isom, M.D.
Alexander M. McPhedran, M.D.
Arthur L. Prensky, M.D.
Peter B. Rosenberger, M.D.
Alberto Salama, M.D.
Gerald F. Winkler, M.D.

Neuropathology

Robert E. Hayes, III, M.D.
Bruce W. Konigsmark, M.D.
Carl M. Leventhal, M.D.
Guy M. McKhann, M.D.
Gilbert F. Young, M.D.

Surgery

Jacobus Greep, M.D.
Edward J. Guiney, M.D.
Motokazu Hori, M.D.
Lee V. Leak, PH.D.
Norman C. Nelson, M.D.
Antero C. Neto, M.D.
Anne Wight Phillips, M.D.

Neurosurgery

Terence P. Abbiss, PH.D.
Hiroki Hirai, M.D.
Kenichiro Higashi, M.D.
John B. Isom, M.D.
Stig H. M. Nyström, M.D.
Pasko Rakic, M.D.
Robert Tym, M.D.

Orthopedic Surgery

Anthony L. Andrikides, PH.D.
Laurence C. Bonar, PH.D.
John H. Bowker, M.D.
Camille J. Francois, M.D.
Ulf A. Friberg, M.D.
Samuel R. Kamhi, PH.D.
Elton P. Katz, PH.D.
Murray V. King, PH.D.
Gerald L. Mechanic, PH.D.
Edward J. Riseborough, M.D.
Harilaos T. Sakellarides, M.D.
Bronnetta L. Scott, PH.D.
Charles Sorbie, M.D.
Dorothy F. Travis, PH.D.

Anesthesia

James E. Anliker, PH.D.
Joan M. Brown, M.D.
Cesare G. Coletta, M.D.
Bruce Foster, M.D.
Donald D. Hutchings, M.D.
Pentti J. Leikkonen, M.D.
John G. Morgan, M.D.
Patrick F. Noone, M.D.
Menno E. Sluijter, M.D.
Gene M. Smith, PH.D.
Judith A. Tassie, M.D.

Pathology

Ram M. Behki, PH.D.
Glenda R. E. Wacker Brodkey, M.D.
Stanley E. H. Brooks, M.B.
Stanley Cohen, M.D.
Arthur W. Duff, M.D.
Antonio Gomez, M.D.
Jonas Hallgrimsson, M.D.
George Kury, M.D.
Lorna J. Langer, PH.D.
George D. Maier, PH.D.
Suraj Prakas, M.D.
Victor J. Rosen, Jr., M.D.
Richard W. Sagebiel, M.D.
Haruo Sugano, M.D.
Edward D. Williams, M.B.
Hubert J. Wolfe, M.D.

Radiology

Champlain Charest, M.D.
Douglass H. Howry, M.D.
Norman D. Levine, M.D.
Robert J. Robl, M.D.
Harry H. Shawdon, M.D.
Donald L. Stone, M.D.

Blood Bank

Anthony F. H. Britten, M.D.

Biochemical Research

Cyrus R. Creveling, PH.D.
Hubert L. Mayer, PH.D.

McLEAN HOSPITAL

List of Officers of the McLean Hospital will be found on page 169.

The Ophthalmological and Otolaryngological needs of the Massachusetts General Hospital are served by the Massachusetts Eye and Ear Infirmary. Their Staff becomes a part of the Staff of the Massachusetts General Hospital and is as follows:

MASSACHUSETTS EYE AND EAR INFIRMARY

DEPARTMENT OF OPHTHALMOLOGY

Chief of Ophthalmology

David G. Cogan, M.D.

Consulting Chief of Ophthalmology

Frederick H. Verhoeff, M.D.

Associate Chief of Ophthalmology for Clinical Services

Carl C. Johnson, M.D.

Surgeons in Ophthalmology

William P. Beetham, M.D.
Virgil G. Casten, M.D.
Brendan D. Leahey, M.D.
Mahlon T. Easton, M.D.
Garrett L. Sullivan, M.D.
Albert E. Sloane, M.D.

Associate Surgeons in Ophthalmology

Thomas Cavanaugh, M.D.
Earl S. Seale, M.D.
Henry F. Allen, M.D.
W. Morton Grant, M.D.
Sumner D. Liebman, M.D.
Abraham Pollen, M.D.
Charles L. Schepens, M.D.
Harry E. Braconier, M.D.

Assistant Surgeons in Ophthalmology

Edward E. Covitz, M.D.
S. Forrest Martin, M.D.
Henry A. Mosher, M.D.
Karl Riemer, M.D.
Charles H. MacLaughlin, M.D.
Francis J. West, M.D.
Joseph M. Clough, M.D.
Julian F. Chisholm, Jr., M.D.
Richard B. Pippitt, M.D.
David H. Scott, M.D.
Taylor R. Smith, M.D.
William Stone, Jr., M.D.
Frederic B. Breed, M.D.
Robert J. Brockhurst, M.D.
Warren D. Haley, M.D.
Thomas P. Cronin, M.D.
Arthur M. Morrissey, M.D.
John M. Hill, M.D.
Ichiro D. Okamura, M.D.
D. Robert Alpert, M.D.

Assistants in Ophthalmology

S. Arthur Boruchoff, M.D.
Arthur F. Calnan, M.D.
Richard B. Chapman, M.D.
David D. Donaldson, M.D.
Carl Gates Freese, Jr., M.D.
Robert J. Herm, M.D.
Paul D. Hurley, M.D.
Carl Kuper, M.D.
Robert C. Lawlor, M.D.
Byron S. Lingeman, M.D.
Irwin T. Mancall, M.D.
Bertha Offenbach, M.D.
George M. Olive, Jr., M.D.
Irving L. Pavlo, M.D.
Charles D. J. Regan, M.D.
Paul M. Runge, M.D.
Ralph H. Hinckley, M.D.
Baruch J. Sachs, M.D.
Alfred W. Scott, M.D.
Michael Wiedman, M.D.
John R. Gehring, M.D.
David S. Johnson, M.D.
Jeremy B. Whitney, M.D.
J. Wallace McMeel, M.D.
Ephraim Friedman, M.D.
Eugene C. Ciccarelli, M.D.
Richard J. Simmons, M.D.

DEPARTMENT OF OTOLARYNGOLOGY

Chief of Otolaryngology

Harold F. Schuknecht, M.D.

Surgeons in Otolaryngology

Edgar M. Holmes, M.D.
Walter J. E. Carroll, M.D.
John R. Richardson, M.D.
John R. Frazee, M.D.
Joseph Lentine, M.D.
J. Charles Drooker, M.D.
Daniel Miller, M.D.

Associate Surgeons in Otolaryngology

Herman J. Sternstein, M.D.
Donald K. Lewis, M.D.
John E. McKeigue, M.D.
Bernard Zonderman, M.D.
Aram Roopenian, M.D.
Charles Kent, M.D.
George F. Reed, M.D.
William W. Montgomery, M.D.
Robert E. Klotz, M.D.

Assistant Surgeons in Otolaryngology

Elizabeth DeBlois, M.D.
Kenneth A. Kazanjian, M.D.
William P. Rogers, Jr., M.D.
Hugo D. Angelini, M.D.
Louis E. Griffey, M.D.
Sidney R. Wilker, M.D.

Surgeons in Otolaryngology

Frank W. Brady, M.D.
Werner D. Chasin, M.D.
William L. Hayden, M.D.
Lawrence S. Hirsch, M.D.
Alfred L. Hurst, M.D.
Geza Jako, M.D.
Robert H. Lofgren, M.D.
David L. Pierce, M.D.
Daniel J. Reagan, M.D.
Mendell Robinson, M.D.
Sydney Shore, M.D.
Morris Swartz, M.D.
John C. Trakas, M.D.
Albert Weiser, M.D.
Albert H. Williams, M.D.

One Hundred Forty-Ninth Report of the Trustees

IN the 151st year of the Hospital it is a pleasure to be able to report several new activities and significant appointments. Of first importance is the appointment of Dr. John H. Knowles as General Director of the Hospital. Dr. Knowles, already a valued member of the professional staff, showed during a six months' period as Director of Medical Affairs executive capabilities of the quality required for the complex role of General Director, and on February 16 he was so appointed by the Trustees.

Certain changes have taken place in the Board of Trustees. On March 30 the resignation of Mr. Francis W. Hatch, whose service dates back to 1947, was accepted with regret, and his appointment as an Associate Trustees became effective on that date for a one year term. Mr. Francis H. Burr was elected a Trustee to replace Mr. Hatch at the same time. Mr. Burr as a partner of the law firm of Ropes & Gray, and fellow of Harvard College, brings to the Board a long experience in legal, business and university affairs. Mr. Edwin W. Hiam was elected an Associate Trustee for two years on May 11.

Under the leadership of the new General Director the Hospital has moved forward in its community role with the establishment of the Logan International Airport Medical Station of the Massachusetts General Hospital. This unit represents a cooperative venture with the Massachusetts Port Authority to extend the services of the Hospital for patient care outside the framework of the General Hospital complex in Boston.

Another venture consistent with the Trustees' interest in broadening the community role of the Hospital was the establishment of the M. G. H. Medical Group. In its pilot stages three doctors will establish relationships with groups of individuals, such as union members, students or employees of various industries, making available to them comprehensive medi-

cal care within the framework of the Hospital. An area of the Clinics Building was renovated for this purpose.

In keeping with the Trustees' policy of upgrading the patient care facilities, Bulfinch 3, the critical care ward of the medical service, was completely renovated during the course of the year. It was gratifying to see how this old building responded to modern architectural and engineering treatment. With funds made available by the 150th Anniversary Program this old ward now becomes the most modern, best equipped patient care unit in the Hospital.

Before the close of the year two floors of the White Building and two additional floors in the Phillips House had been renovated and authorization for the modernization of the Moseley Rotunda to make it a suitable auditorium was approved, with the alterations completed before February 1963. Planning for a cardiovascular research and clinical center and a new patient care unit containing new operating rooms and expanded x-ray and service laboratories was studied and preliminary sketches were reviewed by the Trustees.

At the annual dinner for the members of the Corporation and their wives Mr. Gray reported seven projects completed or underway with 150th Anniversary funds. Included in these were the Bulfinch 3 alterations already mentioned; the Joseph P. Kennedy, Jr. Memorial Laboratories for Research on Mental Retardation which were dedicated on November 29; the 20 Charles Street Nurses Residence, formerly the Lincolnshire Hotel; the Recovery Room; the James Howard Means Metabolic Research Laboratories; and the Orthopedic Research Laboratories. On the same occasion Dr. Knowles reported on the activities in the Blood Bank and the growth of its use over the last ten years; the new respiratory unit in the Phillips House which provides special twenty-four hour care to acutely ill patients suffering from respiratory disorders; the development of the new clinic at Logan Airport; and the Everett Knowles case with particular reference to the usefulness and growth of the Emergency Ward.

Under the leadership of Mr. Gray and Mr. Gilbert H. Hood, Jr. the annual December appeal was directed toward improvement of the Emergency Ward facilities with the proposed con-

struction of a new Emergency Ward X-ray Unit. At the same time the Charles H. Hood Dairy Foundation made a grant to the Hospital for the construction of a new blood bank facility in the new patient care unit referred to earlier.

Ether Day was celebrated in the customary fashion with the award of service pins to devoted employees and staff of the Hospital who have given from five to forty years of continuous service.

This year the Trustees established an annual award for outstanding volunteer service in memory of Mrs. Jessie Harding, a devoted worker in this field for over twenty years. On December 4 this award was made for the first time to Mrs. Doris Taylor Black.

At the McLean Hospital the plans for the new rehabilitation center were completed and the construction contract awarded. Groundbreaking ceremonies took place on May 4 followed by the laying of the cornerstone on October 15. The rehabilitation center will consist of six major areas: Occupational therapy, the library, the music room, the civic center, the day-care center and the educational department. Of these the day-care center and the educational facility represent the expansion of a small pilot project in the old plant into a firmly established permanent hospital unit in the new building. In the same year extensive renovations were made to the electrical system so that the Hospital is now protected with up-to-date safety devices.

On July 1, a new administrative organization at the McLean was established. Dr. Francis L. A. deMarneffe assumed the role of Director of Hospital Affairs and in January 1963 he assumed the role of Director. While Dr. Stanton retained the title of Psychiatrist-in-Chief, he was freed of administrative details to permit the organization of a new clinical research program. Mr. Henry J. Langevin was appointed Administrator.

On November 24 Henry Richardson Shepley died following a long illness. His continuous service to the Hospital as architect and his contributions to the Hospital plant, both in Boston and in Belmont, were memorialized by the Trustees at their meeting on December 21.

After more than thirty years, first as Chief of the East Surgi-

cal Services, and then as the first chief of the combined General Surgical Services, Dr. Edward D. Churchill retired and was appointed to the Board of Consultation on July 1. As teacher, surgeon and medical statesman, Dr. Churchill's contributions on the local, national and international scenes were of the highest order, and the Trustees are deeply grateful for his many years of devoted service. Certainly the Hospital's ability to serve humanity has been greatly enhanced by his presence.

As successor to Dr. Churchill as Chief of the General Surgical Services, the Trustees have appointed Dr. Paul S. Russell. Dr. Russell received his early training at the M. G. H. under Dr. Churchill, and for the past few years has been serving on the staff of the Columbia-Presbyterian Hospital in New York City.

Dr. Nathan B. Talbot was made Chief of the Children's Service; Mr. Ferdinand Strauss became an Assistant Director; and Mr. William Van N. Washburn was made Assistant to the Associate Director for Resources and Development.

The following resignations were accepted during the course of the year—that of Mr. Joseph T. Prekup, Administrator of the McLean Hospital, who resigned to accept the post as Associate Director of Maricopa County General Hospital in Arizona; Dr. Leonard W. Cronkhite, Jr., Assistant in Medicine, to become General Director of Children's Medical Center; and Dr. Humberto A. V. Fernandez-Moran, Associate Biophysicist in Neurosurgery, to become Professor of Biophysics at the University of Chicago.

JOHN S. LAWRENCE
For the Trustees

Report of the General Director

IT is an honor to submit the Annual Report of the Hospital for the year 1962, my first as General Director.

The functions of the university affiliated teaching hospital have been described as patient care, teaching and research. The primary mission and therefore the central function of the Massachusetts General Hospital is the care of today's patient to which end the Hospital's teaching and research activities have and will continue to contribute heavily. The balance of these three activities and the attainment of their goals define the direction of the institution and describe its place in society. The function of Hospital Administration is to support and facilitate the activities of the individuals and groups involved in these pursuits. As the Hospital increases in complexity, and the community looks to it with ever increasing expectations for its health wants and needs, its ability to function optimally as a social instrument will be tested increasingly by the community and its many representatives. In order for the Hospital to maintain its autonomy as an institution and to function as a social instrument, its social and technical organization must be sound, recognizing that too much organization is as bad as too little, and that "efficiency" in the extreme and humaneness may not always be compatible. Much of our attention is devoted to these basic issues, the need for responsive planning, constant communication and a strong organization.

The foundation of the hospital rests on the Christian and Judaic ethic of humanitarianism and the *raison d'etre* of the hospital remains the care of the patient. In the care of the patient, injured or acutely ill, the hospital remains at the forefront in its traditional role as an acute, curative institution. With the completed alteration of Bulfinch 3 and the now well-established Respiratory Unit, the Hospital has 23 beds with the necessary personnel and technical accoutrements to care optimally for any acute, complicated illness. In addition there are the Recovery Rooms for post-operative cases which may handle

as many as 30 patients at any given time and for periods ranging from several hours to days.

With this increased ability to care for the patient with acute, complicated and life threatening disease, we have been and will be called upon increasingly to care for more of these individuals, as our technology and expertise expands with the expanding contribution of science to medicine. Our Emergency Ward Staff will see over 44,000 patients this year. A recent spot check of in-patients revealed that 4% of them could well use the facilities of an acute care unit. As noted by Miss Sleeper in her report, acute care units revolve around the nursing staff, and special technical and professional skills are needed by them for these units. Our medical staff sees the need for more acute care areas and beds and with their increasing knowledge and specialization, it would seem that almost anything in medicine is possible if the tools and skills are available in a concentrated area.

Yet, we are all sobered by the present day facts that the care for one patient in the Respiratory Unit, for example, costs the Hospital a minimum of $120 per day. The Blue Cross contract has thus far made no provision for reimbursement to the Hospital for such extraordinary care, and the State Welfare Department will allow a maximum reimbursement of $35.66 per day, with *no* provision for special nurses or blood transfusions. Special nurses and other expert professional personnel are required in abundance at a time when they are becoming increasingly scarce. This is expensive care for the patient and for the Hospital, and yet there seems to be no doubt that this care is needed. The economic problem (and the shortage of nurses) is pushed to the forefront and will occupy all segments of society, in and out of the hospital in the present era of rising expectations and rising costs. This is one of the major problems facing the hospital today—and allows us an opportunity to contribute to its solution. Our efforts with the State Welfare Department and the Massachusetts Blue Cross will increase as a natural consequence. Philosophically, medical science can determine what is possible in the care of the sick, but cannot always determine what *should* be done. Society is the artificer of the possible in this case and will ultimately have to

determine what part of the welfare dollar will go to health services, as competing priorities such as housing and general education increase. Before this choice has to be made however, there are various measures that can be tried in order to solve the dilemma. Low cost units for ambulant and convalescent patients are very much in our minds as are more formalized regional planning efforts.

With our budget for patient care activities approaching 2 million dollars per month, no explanation is required for the interest of the Trustees and Administration in sound business management and the level of the census at any given time. This year our census has reached and maintained an all-time high, bringing with it many stresses and strains on all the hospital family, who, as always, have risen to the task and handled as humanely and efficiently as possible the many and incessant extraordinary demands.

The teaching function of the Hospital has always been one of its most important contributions. In all areas, formal, and just as important, informal teaching goes on day and night and the atmosphere remains conducive to asking questions, helping with information, and learning all for the benefit of the patient. In the area of House Staff and medical student training, recent events have given us some cause for concern. With the growth of health insurance and the third party payer, more and more patients are seeking semi-private and private accommodations. Although the census in the General Hospital has held up fairly well, more and more patients are entitled to Baker and Phillips House accommodations with the result that increasing numbers of "Baker patients" are being boarded in the unused beds of the White and Bulfinch Building. Over the past year, we have altered patient areas in the Burnham, White and Bulfinch Buildings to make them similar to Baker accommodations. This has been done for two reasons: first, to encourage patients who could elect Baker accommodations to return to the General Hospital and the care of the House Staff and secondly, if this effort fails, to have our bed areas classified for semi-private use.

If experience in the rest of the country can serve as a guide, it would seem that the day of semi-private care is here and our

teaching system must evolve to integrate the Baker and Phillips House patients more effectively into our teaching program. The Chiefs of Service and a special Committee of the General Executive Committee are all occupied with this crucial problem at the present writing.

In the area of research, the changes and the magnitude of its activities have been outlined in the Report of the Committee on Research. The Trustees have authorized a new position in the Administration to help coordinate and assume administrative responsibility for this vital area of the Hospital. I expect this position to be filled this year. This comes at a crucial time in the history of this Hospital. In 1935, our budget for research was scarcely over $50,000. Following the Second World War, the support of research became a national enterprise, and as private and individual support could no longer foot the rising bill, active governmental participation was necessary to develop and sustain scientific research in medicine and the natural sciences. This year our budget for research will be nearly 7 million dollars of which the greatest portion comes from the U. S. Public Health Service through the National Institutes of Health.

As Federal support of medical research has increased, the taxpayers and their elected representatives have become increasingly interested in how their money is being used.

Under pressure from Congress through the Fountain Committee, the Public Health Service has now made some fundamental changes in its policy for the administration of research and training grants. In general the new policy will require, 1) a more strict and detailed accounting of expenditures and 2) written permission for changes in the research aims and goals, as well as the budget as represented in the original application.

All of us are aware of the absolute necessity for the free play of the intellect in academic pursuits, and the new rules and regulations occasioned by the activities of the Fountain Committee are somewhat disturbing when viewed in this light. However, this consideration must be balanced with an equally great individual (and institutional) responsibility to use Federal money as prudently and as wisely as one would use his

own. Both ends can be served equally well as they have been in the past at the Massachusetts General Hospital. The new person should help maintain the optimal balance of freedom and responsibility.

Effective planning must be realistically based on a clear knowledge of 1) the social history of the institution, 2) the resources and energies available, both intellectual and financial, 3) the internal influences and attitudes as well as those external to the hospital which can modify, prevent or implement such plans, and finally, 4) the values, human needs and goals of society such that the hospital as a responsive social instrument fulfills certain hopes and expectations of society at large. With the steady increase in the complexity of the hospital, centralized planning becomes crucial if the hospital is to function effectively as a social instrument in solving some of the social and economic problems of medicine. We have over the past year reviewed with the staff various recent events which will shape some of our future planning. These include the proposed amalgamation of five of Harvard's affiliated teaching hospitals, and the possibilities of redevelopment (under the Urban Renewal Act) of three blocks on the south side of the Hospital as well as several broader issues concerning 1) the balance of activities in the institution and 2) the social and economic problems of medicine and hospitals. The latter are currently being reviewed in a series of weekly lectures sponsored jointly by the Massachusetts General Hospital and the Lowell Institute.

Our most pressing needs at the moment are for expansion of our Dietary Department, centralization and expansion of the administrative functions, centralization of operating rooms, and increased space for the Radiology Department, Clinical Chemistry, Bacteriology and Blood Bank Laboratories. The phenomenal increase in service in all these areas without new facilities or even enlargement of the existing areas has demanded that the Hospital turn to the solution of the problem as its top priority for new construction. The Staff agrees and the Trustees have authorized the Administration to draw up preliminary plans for a new building on the North side of the Hospital in the area presently occupied by the Domestic Building and the old Pathology Building.

Simultaneously we have turned increasing attention to our present Ambulatory Clinics realizing that this area of hospital function will assume a very central role in the solution of present and future social and economic problems of medicine. New experiments in patient care, new functional arrangements in the organization and provision of health services and in the teaching of medicine must be brought to bear in this area, which traditionally has been the step-child of all university hospitals in this country. Hopefully by the time the North Building is completed, new and exciting developments in this area will demand new construction just as the pressures of the post-war expansion in medical research demanded the construction of the Research Building. A small medical group practice has been established in altered and improved space in the Clinics Building to experiment with comprehensive, prepayment medical care with consumer groups in the community. In conjunction with the Massachusetts Port Authority we have established a medical station at the Logan International Airport to bring together the acute curative function of this Hospital with the practice of public health and preventive medicine for the total care of a defined community. If these departures demonstrate their need and become firmly established, then teaching and research can be introduced to improve and expand the service.

A chronicle of important events over the past year includes the Trustees' appointments of Dr. Paul S. Russell as Chief of the Surgical Services, Dr. Nathan B. Talbot as Chief of the Children's Service and Miss Ruth Sleeper as a full member of the General Executive Committee; the Trustees' authorization to 1) proceed with the construction of a combined service and research area between the Bulfinch and the Research Building to house cardio-vascular and pulmonary interests; 2) add an X-ray unit to the Emergency Ward which will improve this service as well as the in-patient service on White 2; 3) construct a Coffee Shop between the Baker Memorial and the Chapel, and 4) initiate the aforementioned planning for a new North Building.

The Lowell Lectures on "The Hospital's Responsibility to the Community" have been well attended and represent the first of what will be continuing efforts to educate and enlighten

the public as well as the hospital family as regards the problems of hospitals and medicine today. Better understanding should result in constructive action.

The past year has been an intensely satisfying experience for me. It seems that the Director's Office sees nothing but problems and they are good ones, generated by the enthusiasm and the excellence of the individuals working in all areas of the Hospital, doing their best, giving to the Hospital, proud of its accomplishments and striving to add to its pre-eminence. The Administration's job is to arbitrate conflicting interests, to coordinate efforts and to support and implement the activities of all the individuals and their Departments. These are good problems and their number and magnitude are directly related to the dynamic vigor of the institution. The more the better!

I cannot close this Report without expressing my thanks to the Hospital, its Trustees and its Staff who have exercised patience and given understanding support to those of us new in our positions this past year. It is typical of this institution that its individuals close ranks and help each other to make the Hospital succeed and thrive. Dr. Ellsworth T. Neumann, Administrator, has devoted seven days a week for the past thirteen years to his job—his understanding of and devotion to the Hospital have been a source of strength to all of us and are gratefully acknowledged here.

JOHN H. KNOWLES, M.D.
General Director

Report of the General Executive Committee

THE year 1962 was one of transition for the Massachusetts General Hospital. New appointments in many important positions have implied changes of policy. The sense of uncertainty noted in the previous report that pervaded the Hospital a year ago has by this time been replaced by a buoyant optimism. The discussions and the decisions of the General Executive Committee have reflected this development.

This Committee has been concerned with many matters during the year that may be summarized under several headings:

1. *Changes in Personnel*: The Committee, during the year 1962, recommended a total of 471 appointments, reappointments, promotions or resignations to the Trustees. The important appointments made by the Trustees included Dr. Nathan B. Talbot as Chief of the Children's Service on May 25; Dr. Paul S. Russell as Chief of the Surgical Services on July 1; and Dr. Alfred Kranes as Acting Chief of the Medical Services, retroactive to June 25. With these changes and by the election of Drs. Gordon S. Myers and Claude E. Welch as Members-at-Large, it is clear that the membership of the General Executive Committee has changed substantially within the past year.

A change in the retirement age of members of the Active Staff was noted in the last report of the General Executive Committee. The Trustees, on January 5, 1962, agreed that henceforth all members of the Active Staff would become eligible for appointment to the Board of Consultation on the thirtieth day of June following their sixty-sixth birthday, rather than six years earlier as previous regulations had specified. The privileges and duties of Active Staff members between the ages of sixty and sixty-six years have been outlined in the revised Rules of the Trustees of the Hospital that are now in press.

Dr. Walter Bauer was elected to the Chairmanship of the General Executive Committee, replacing Dr. Edward D.

Churchill who had been chairman since 1954. Because of Dr. Bauer's illness, Dr. Laurence L. Robbins is now Acting Chairman.

2. *Plans for the Future Development of the Hospital*: Such considerations include not only many that will change the physical plant, but, in several instances, have introduced new concepts revising the traditional role of the Hospital. During the past year a plan for the next great development of the physical plant of the Hospital was finally accepted. After many years, the Trustees and Staff were united in the plan that a new building ("North Building") be erected to replace the old Domestic Building.

The General Executive Committee also is aware of the numerous demands for physical expansion that have been emphasized by several Chiefs of Service in their yearly reports to the Committee. The Kennedy Memorial Research Laboratories and the projected installation for cardiovascular research are important additions. The North Building will furnish a modern surgical suite as well as great expansion for the development of radiology and of the clinical laboratories.

A critical care ward now is under consideration by a special committee.

More ambitious projects may follow further plans for urban redevelopment in the hospital area, or may be linked with future development of the McLean Hospital. These suggestions, as well as others, have led the General Executive Committee to discussion of a policy that eventually must be established, which will define the ultimate size of the Hospital, as well as the proportionate space devoted to patient care, research and teaching.

The impact of the Hospital upon the community has been strengthened by several new projects. The General Executive Committee, in March, discussed and approved the location of a medical facility at Logan Airport. It was authorized by the Trustees and, on January 3, 1963, the "Logan International Airport Medical Station of the Massachusetts General Hospital" was opened in conjunction with the Massachusetts Port Authority. Dr. Kenneth T. Bird is the Director of this project, one of the first of its type to be established in this country.

The second undertaking approved by the General Executive Committee consisted of the formation of a medical group to develop community medical service and to develop comprehensive, prepaid medical plans. A new office area has been designated and the facility has been opened under the direction of Drs. George Baker and Alan Sandler.

3. *Economic Developments Affecting the Staff*: Medical economics play a much more important role in the dictation of hospital policy year by year. The professional staff recognizes that increasing hospital costs require close husbandry of the hospital's resources. Meanwhile, the great growth of third party insurance agencies have made it necessary to re-evaluate many aspects of the finances of the Hospital.

Since the percentage of private patients continues to rise, and has been accompanied by a fall in ward census, particularly in the surgical specialties and the Medical Service, the Administration has upgraded 187 beds in the White, Vincent and Bulfinch Buildings from ward to semi-private accommodations. Neverthless, it now appears probable that the facilities of the Massachusetts General Hospital are in such demand that the Hospital will not be able to treat all of the patients who wish to enter, simply because of lack of space. The implications of this trend on the educational program are obvious. An important new committee, with Dr. Russell as Chairman, is now grappling with this problem.

Meanwhile the General Executive Committee has been concerned with the fact that the compensation of interns and residents continues at a relatively low level. At the same time that a resident obtains education he is making a great contribution to the care of the patient, to an extent that has not been recognized by the public or profession. However, the situation is being ameliorated. Blue Cross coverage, at Hospital expense, was given to all house officers and their families early in 1962. An increase in salary of those residents who have served in the Massachusetts General Hospital for three years or more has been authorized. Further changes are under consideration.

A change in the Baker Fee System was approved during the year. This change was recommended by the Baker-Phillips House Committee. Since each doctor has an individual con-

tract with Blue Shield, all patients covered by this type of insurance now are billed directly by each physician concerned with their care. Other patients, who are without insurance, or who have third party payments other than Blue Shield or Workmen's Compensation insurance, will be billed as they were previously. It has been recommended that all Staff members follow the categories and charges outlined by the Baker Fee Committee.

It was agreed to approve the general principle that professional charges be submitted to Blue Shield on service patients who are cared for by a member of the Active Staff with the provision that the Chief of Service in each instance discuss the disposition of these funds with the individual surgeon.

Two reports were received by the General Executive Committee of pilot organizations set up by the Surgical Services. Dr. George Nardi has been in charge of the "White-8" plan, and the organization of the Massachusetts General Surgical Associates was described in detail by Dr. Marshall Bartlett. Both groups have been designed primarily to increase opportunities for the younger members of the Active Staff in the areas of education and professional care.

4. *Improvement of Communication between Members of the Staff*: The General Executive Committee has been interested in this problem which increases in direct ratio with the size and complexity of the Hospital. Continuing reports from Heads of Departments and Standing Committees have been received and sent to all Staff members. Dr. Knowles has reintroduced the dissemination of information by Administrative letters. Various other more complex solutions, such as the publication of a bulletin, have been discussed and rejected.

Miss Ruth Sleeper was appointed a permanent member of the General Executive Committee in order to facilitate communications with the Nursing Service and the School of Nursing.

A new sub-committee of the General Executive Committee, entitled "The Committee on Medical Teaching and Education" was established to coordinate the numerous teaching activities of the Hospital, particularly in relationship to the Harvard Medical School, and to investigate new methods. Dr. William V. McDermott was appointed the first Chairman.

5. *Miscellaneous*: The Warren Triennial Prize lectures for the year 1962 were given in the Morse Auditorium, Museum of Science. Keith R. Porter, Ph.D., Professor of Biology at Harvard University, spoke on "The Endoplasmic Reticulum and Evolving Interpretations of its functions" and the address of George E. Palade, member and Professor, Rockefeller Institute, was entitled: "On the Secretory Process—its Study in the Pancreatic Exocrine Cell."

A Dalton Scholarship was granted to Dr. William E. Strole, Jr. for a three-month period for work with the gastro-enterology group.

Two Richardson Lectures were given during the year by Dr. Fritz Lipmann and by Professor R. E. O. Williams of St. Mary's Hospital Medical School, London.

A Committee on Monitoring is studying the application of these methods for the Hospital. The Chairman, Dr. Gardner C. Quarton, presented a progress report on April 16.

A Committee under the Chairmanship of Dr. H. Thomas Ballantine, Jr. was appointed on July 25 to investigate the use of television in coordinated teaching exercises with nearby community hospitals.

The Disaster Committee, which has been in existence for many years, was reorganized under the Chairmanship of Dr. Charles G. Mixter, Jr. He has instituted new methods of organization that will make the function of the Hospital much more efficient under such circumstances.

The widespread use of radioactive material, both in therapy and research has required the designation of the post of Radiation Safety Officer. Dr. Edward W. Webster, physicist in the Department of Radiology, was appointed.

The Medical Records Department has been handicapped by lack of space and by voluminous records that are difficult to transport. After long discussion, microfilming of records was approved. Because of their historical value, it was recommended that old records not be destroyed.

The General Executive Committee also has been concerned with the growth of the Emergency Ward. A report by Mr. Henry J. Murphy detailed the amazing growth of this portion of the Hospital and the need for space, for a separate area de-

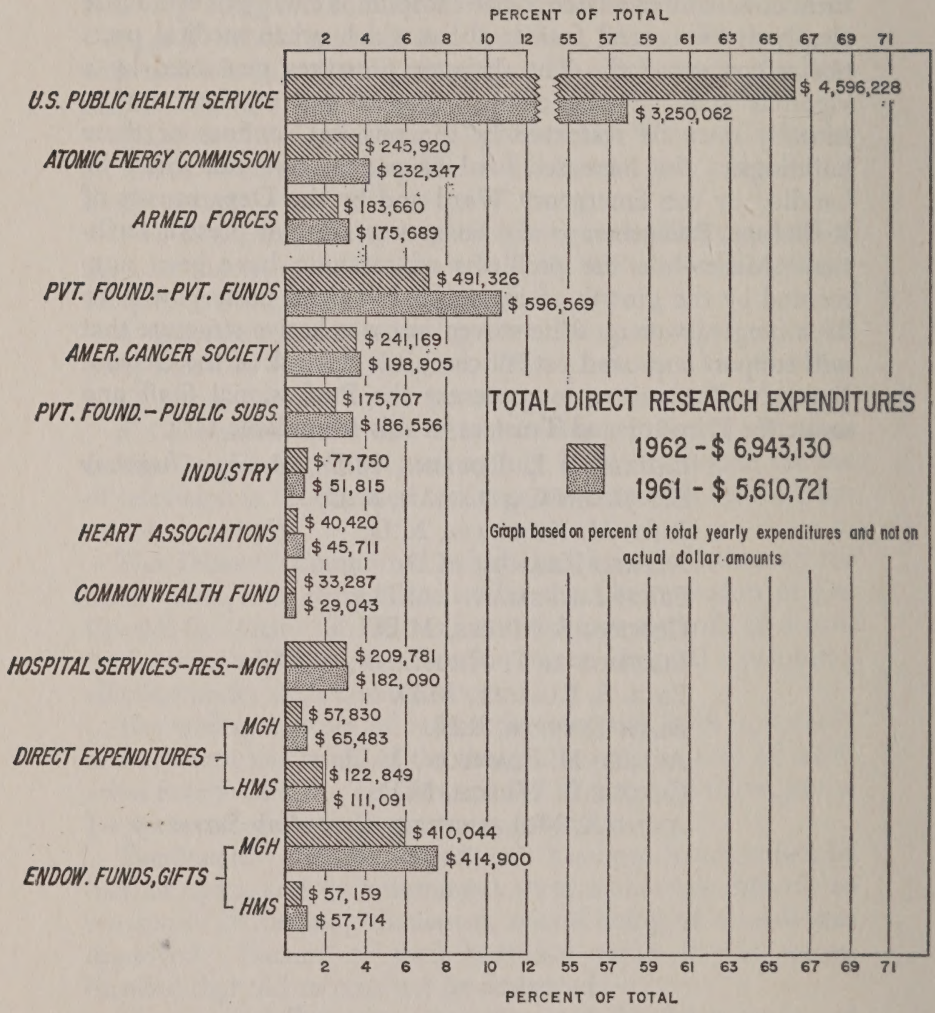
voted to diagnostic radiology, and for the immediate availability of active Staff members at all times.

At the end of 1962 the General Executive Committee was deliberating on several important policy decisions, many of them closely inter-related. The Hospital is emerging ever more clearly as the central facility about which urban medical practice is concentrated. The dynamic pressures generated by a vigorous staff of physicians, scientists and teachers unfortunately must be restricted by the physical confines of these buildings. The increased load of patient care that must be handled by the Emergency Ward and by the Departments of Radiology, Radiotherapy and Surgery strains our present facilities. Meanwhile the problems of teaching have been augmented by the growth of insurance and third party payments. This tangled web must be woven into a cohesive structure that will support improved patient care; it is the task of the General Executive Committee to represent the Professional Staff and assist the Director and Trustees in this formidable task.

LAURENCE L. ROBBINS, M.D., *Acting Chairman*
BENJAMIN CASTLEMAN, M.D.
JOHN H. KNOWLES, M.D.
ALFRED KRANES, M.D.
ERICH LINDEMANN, M.D.
GORDON S. MYERS, M.D.
ELLSWORTH T. NEUMANN, M.D.
PAUL S. RUSSELL, M.D.
RUTH SLEEPER, R.N.
ALFRED H. STANTON, M.D.
CLAUDE E. WELCH, M.D.
ANNE R. MCLAUGHLIN, *Recording Secretary*

Direct Research Expenditures

For 1962



Report of the Committee on Research

PURSUIT of knowledge of the factors determining health and disease has proceeded apace during the past year. This aspect of the Hospital's endeavors—perhaps even more than patient care and teaching—is currently undergoing a rapid, almost kaleidoscopic, evolution. Superimposed on a background of continuing rapid growth are important changes in policies of administration, senior personnel, modes of financing, major physical facilities, and scientific objectives.

With the appointment of Dr. John H. Knowles as General Director, steps have been taken to strengthen the administration of research and to integrate it more fully with the other goals of the Hospital. The need for more central administration of the research program has arisen inevitably from: the over-all growth of research, at present a seven million dollar a year venture; the increase in institution-wide financing as exemplified by the NIH General Research Support Grant; the increase in institution-wide services as exemplified by the Electronic Shop and the Center for Computers and Mathematics in Medicine; and the recently instituted policy changes of the Public Health Service requiring stricter accounting by grantee institutions of the use of research funds. Every effort is being made to achieve the necessary administrative supervision without imposing undue paper work on investigators or reducing the freedom essential for effective research.

Our research program has lost two major figures during the past year as the result of the illness of Dr. Walter Bauer and the retirement of Dr. Edward D. Churchill. Dr. Paul S. Russell, the new Chief of the Surgical Services, has brought to the Hospital an exciting and active research program in tissue transplantation. Dr. Nathan Talbot, the new Chief of the Pediatric Service, is developing plans for expanding the research program in the Burnham Memorial for Children.

Expenditures for research increased another 20% during 1962, almost entirely as a result of increased support from the Public Health Service. The amount received in grants from this source has more than doubled in the past four years, and the portion of our total research support thus derived has risen from 50% to 66%. Beginning in 1963 the Hospital can look forward to receiving about $200,000 annually for the direct cost of research through the new NIH General Research Support Grant, alluded to above. This relatively stable but flexible institutional fund will have unusual value as a supplement to the present project support, and its disposition has received considerable thought by the Committee on Research.

One important research facility was completed and another initiated in 1962. The Joseph P. Kennedy, Jr. Laboratories for Research in Mental Retardation were dedicated on November 29. Final plans have been drawn up and the contract let for a Biomedical Annex to the Harvard Cyclotron to be used for the study of biological effects of the proton beam. The cost of constructing and equipping this facility will approach $180,000. In spite of these additions, space continues to be the factor most limiting to further expansion of the research program. Particularly acute, has been the need for laboratories for research and diagnostic procedures in cardiovascular disease. Plans have been drawn up for expansion in this area and financing is being sought. Considerable attention has been given to long range plans for the Hospital's research facilities, and a tentative program has been formulated with particular attention to meeting the dislocation which will arise with the construction of needed clinical facilities in the new North Building.

Though the amount of space available is the principle determinant of the over-all size of the research program, the caliber of the senior research personnel determines its quality. The Advisory Committee on Senior Research Appointments which met regularly to consider policy and specific appointments for research staff at the senior level has recently been combined with its junior counterpart, the Committee on Non-clinical Appointments, to form a new seven member Committee on Research Appointments, with Dr. William H. Sweet as Chair-

man. It will be a standing committee of the General Executive Committee, appointed annually.

OLIVER COPE, M.D.
Chairman
Committee on Research
ADELBERT AMES, III, M.D.
Executive Secretary
Committee on Research

Vincent Memorial Hospital
Report of the Board of Trustees

ON behalf of the Board of Trustees, I take this opportunity to express gratitude to all those who are responsible for the continuing and exciting developments within our small Hospital. May I refer you to the reports of Mrs. Lewis and Dr. Ulfelder for the details of the activities of the Board of Managers and the Staff? We are indeed proud of our place within the Harvard Medical School's structure, cemented by the establishment of the Joe Vincent Meigs Professorship in Gynecology.

To celebrate the establishment of the Professorship, a dinner was held at the Harvard Club on May 22, 1962, to honor Dr. Meigs; to congratulate Dr. Ulfelder, the first Meigs Professor; and to pay tribute to Dr. Maurice Fremont-Smith, the Chairman of the Professorship Fund Committee. In recognition of his contributions to the Vincent Memorial Laboratory, Dr. Fremont-Smith was presented with a facsimile of the plaque which now is placed on a wall of the Laboratory, inscribed as follows:

In honour of
MAURICE FREMONT-SMITH, M.D.
May his curiosity and vision
be perpetuated here
May 22, 1962

The present financial condition of the Hospital is satisfactory, thanks in large part to the constant and dependable help of The Vincent Club, which, over the past seventy years, has contributed $1,250,000 to the Hospital. It is impossible to adequately express our appreciation to those members of The Vincent Club who work indefatigably in the conduct of Club affairs and the production of the Annual Show and its program. It is equally difficult to give full recognition to all of the over 1,900 members of the Club for their faithful support through the payment of annual dues.

For the past ten years the Treasurer of the Hospital has been George Putnam, Jr. and our finances show the results of his wise and thoughtful guidance. Mr. Putnam's resignation as Treasurer has been accepted by the Trustees with great regret and most sincere appreciation for his tireless efforts on behalf of the Hospital. We look forward to working with his successor, George Lewis, and are grateful that we will not lose Mr. Putnam entirely as he remains a member of the Board of Trustees.

It is a pleasure to welcome the new members of the Board of Managers and the Staff. The appointment of Dr. John H. Knowles as General Director of the Massachusetts General Hospital and as Director of the Vincent Memorial Hospital assures the continuation of our valued affiliation with the Massachusetts General Hospital.

At our Annual Meeting in February 1962, Miss Dorothy Rackemann was elected President of the Board of Trustees, succeeding Mrs. Nelson W. Aldrich, who since 1954 has given unstintingly of her time and concern to the welfare of the Hospital and its patients. In her quiet and unassuming way, Mrs. Aldrich has contributed unceasingly and effectively to the morale of the patients within the Hospital and to the understanding of the Hospital's work. Happily, she continues as a member of both the Board of Trustees and the Board of Managers.

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VINCENT MEMORIAL HOSPITAL

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Suraj Prakash, M.D., *Research Fellow in The Vincent Memorial Laboratory*
Miss Mary E. Quinlan, R.N., *Assistant Director in Charge of Nursing*
Mrs. Marilyn Prouty, R.N., *Nursing Service Supervisor*

Vincent Memorial Hospital
Report of the Chief of Staff

IT is gratifying to be able to report to the Trustees that all units of the Hospital Service saw increased activity during the past fiscal year. With 744 patients discharged from Vincent II, 3,784 visits made to the Ambulatory Clinic, and 556 operations performed, the figures indicate that only one recent year was truly busier. Viewed against a background of concern for the welfare of our teaching function, these facts are most encouraging.

The year's most important event was the activation of the Joe V. Meigs Professorship of Gynecology at the Harvard Medical School on July 1st, 1962, and the announcement of the appointment of your Chief of Staff to be the first incumbent. The creation of this tenure position, with the authority and departmental financial flexibility that go with it, completes the conversion of the Vincent Memorial Hospital to a teaching unit of first rank within the Harvard Medical School structure.

Other staff matters are equally a cause for satisfaction. Dr. Langdon Parsons has returned to active teaching status with his reappointment to the Harvard Faculty. Dr. Celso-Ramon Garcia has joined the staff and accepted the position and duties of Chief of the Infertility Clinic. His skill and reputation will reestablish an important function of the department, at the same time restoring the full complement of gynecologic services offered here. The resignation of Dr. Albert F. Parlow, Ph.D., Research Associate, was accepted. He has joined the Faculty of Emory University in the Department of Physiology. Dr. Suraj Prakash has been appointed Research Fellow in the Vincent Memorial Laboratory and has embarked on studies in association with Dr. Janet McArthur and with Dr. Robert Scully of the Department of Pathology, Massachusetts General Hospital.

Continuous, detailed, and intimate collaboration with a constellation of superlative sister units is one of the unique advantages enjoyed by your current Vincent Memorial Hospital. Research has been and is being conducted with the Protein

Foundation, the Huntington Laboratories, the Department of Pathology, and its Cytologic Laboratory; and recently the special facilities of the Kennedy Memorial Research Laboratories have been made available to us for work requiring primates. Our patients have always profited from rapid and ready consultation with other services, particularly, radiotherapy, urology, and internal medicine. With the appointment of Dr. Paul Russell as Chief of Surgery at Massachusetts General Hospital, we can look forward to a continuation of cordial close relations between his services and ours. Already the pattern of training for academic gynecology and obstetrics charted by the Macy Program and recognized by the appointment of Dr. Ann Brace as intern in surgery assigned to gynecology last July 1st, speaks strongly in favor of a future surgical philosophy with reduced emphasis on sharply limited specialty training in the immediate postgraduate years.

During the year our physical plant completed the office renovations incident to the addition of the Kennedy Laboratory floors and a third elevator. The Vincent Laboratory was improved by the replacement of several sinks, the installation of shelves, cabinets, and other needed storage space and the conversion of our constant temperature cabinet into a walk-in freezer chest. When the few changes which are still in project are completed we will be able to forge ahead with washing, painting, and other badly needed improvements in laboratory appearance.

The research program under Dr. McArthur's direction has confirmed the technical possibility of separation of the two major pituitary gonadotropic fractions in human plasma by Dr. Antoniades at the Protein Foundation; and improvements in purification procedure suggest that active residues may economically be separated from the discarded remains of normal plasma pools after present day commercial use. A convenient model for evaluation of the gonadotropic effects of these preparations will be available when current experiments on primate monkeys by Dr. Brace and Dr. Ulfelder are completed. Dr. Prakash, in collaboration with Dr. McArthur and Dr. Scully, is studying the changes seen in animal ovaries after hormones are given, by a microscopic method which permits accurate and reproducible

measurements. Combined efforts are also being applied to the study of endometriosis both clinically and histologically. Concurrently, Dr. McArthur is restudying the hormone pattern of the normal cycle with the accuracy made possible by recent developments in assay methods. It surprised none of us when Mount Holyoke College recognized this distinguished physician and biologist by conferring the honorary Doctorate of Science on Janet Ward McArthur at its 125th Anniversary Convocation on November 8, 1962. The citation stated: "Your research has advanced the understanding of human endocrine function, both normal and abnormal. Your pioneer work in measuring hormones of the pituitary gland has resulted in an assay method which has become an international standard. Your careful research, your understanding care of patients, your role in teaching others have advanced the understanding of human ills and have led to improvement of the human situation".

The study of ovarian function at molecular level by Dr. George S. Richardson has advanced fruitfully during the year with the introduction of new, simpler methods of separation and identification of steroids adapted from industrial chemistry. It is now possible to characterize ovarian tissue by its performance in these systems. Concurrently, methods to quantitate steroid biological effects are under development. A number of lesser projects in each research area are also carried on as time and appropriate material permits, including chromosome analysis in several gynecological diseases and congenital anomalies, transplantation methods for human tissues, and the application of new drugs and methods of administration in patients with advanced cancer.

The education of doctors, nurses, and technicians maintains the pace we have come to regard as normal. Our own pet, the September Postgraduate Course, was a great success and again oversubscribed. This permits me to express gratitude to the Trustees and the Board of Managers, and no less to the members of The Vincent Club and the Staff of the Hospital, both inpatient and ambulatory, for constant, apparently enthusiastic support of every occasion.

HOWARD ULFELDER, M.D.
Chief of Staff

Vincent Memorial Hospital

Report of the Board of Managers

THIS year will perhaps be best remembered for the celebration of two anniversaries. Fifteen years ago we moved from the old Hospital on South Huntington Avenue to the grounds of the Massachusetts General Hospital and into our own building. The spirit of cooperation and the desire to be of the greatest possible service to the patients has enabled us to work with and benefit from our association with the Massachusetts General Hospital without becoming submerged in the larger institution. We are proud of our Hospital and proud of the Vincent name and for the heritage for which it stands.

The second anniversary was a golden one. At our Board Meeting on May 10th, 1962, a silver letter opener was presented to Mrs. Edwin S. Webster as an expression of affection and admiration for her fifty years of wise counsel and inspiring devotion to the Vincent Memorial Hospital. Nine other members of the Board who were with us on South Huntington Avenue are still interested and active. During the past year it has been a pleasure to welcome three new members to the Board: Mrs. Samuel Haydock, Mrs. Ralph E. Thompson, Jr., and Mrs. Harcourt Wood. We were sorry to have to say good-bye to Mrs. Charles F. Hovey, who was succeeded as President of The Vincent Club by Miss Marian L. Minot.

We continue to carry on the various activities for which we have responsibility. As can be seen from Dr. Ulfelder's report, the census of the Hospital remains high and our Visiting Committee has been more apt than not to find patients on the solaria. With Dr. Ulfelder's encouragement, the Board has included the Gynocology Clinic in its scope of concern. More colored smocks were ordered as we are told that their attractiveness adds immeasurably to the patients' morale. We have also been responsible for urging the installation of new lighting in the clinic and for a fresh coat of paint. We are grateful to the Institute of Contemporary Art for posters and pictures that now relieve the bareness of the clinic walls, as they have of the Hospital for several years.

In September 1962, the Board again entertained at coffee some fifty doctors, participants in the Harvard Medical School's postgraduate course in gynecology given at the Vincent Hospital. Several years ago, when Mrs. C. Chauncey Gray first started reporting this course to the Boston newspapers, she devised the idea of sending a release to the newspapers of the participants' home towns. It was with real interest and pleasure that we learned, this year, that the news office of the Harvard Medical School has adopted Mrs. Gray's idea for all of the postgraduate courses given by the Medical School.

We continue to attend the meeting of the New England Hospital Assembly, held in March, the annual meeting of the Massachusetts Hospital Association, and all meetings of the Greater Boston Regional Group of Hospital Auxiliaries. We keep in touch with the other volunteer groups at the Massachusetts General Hospital through our representatives on both the Coordinating Committee and the Volunteer Advisory Committee.

At our April meeting we were privileged to welcome Dr. John H. Knowles, our new Director, who spoke most inspiringly of plans for the future. He also described the new medical service being established by the Massachusetts General Hospital at the Logan Airport. In May, it was our privilege to hear Dr. Janet McArthur tell us of her work in the Vincent Memorial Laboratory.

In closing, I report with deep regret the untimely death of Mrs. Laurence W. Morgan, a loyal member of the Board for twenty-five years. The following resolution appears in our minutes:

"Her death, which was a sudden and overwhelming shock to her friends, was not so to herself—for it was typical of her that she shared only the happy things in her life. The world was her friend and her friends were of all ages. Though she was twice a great-grandmother—a fact of which she was very proud—she had been an able and devoted board member of both the Club and the Hospital and also in the cast of several Vincent Shows. We, the Board of Managers of the Vincent Memorial Hospital, will miss her warmth, her friendliness, and her charm."

MURIEL G. S. LEWIS, *President*
(Mrs. George Lewis, Jr.)
Board of Managers

Report of the Department of Pathology

A DEPARTMENT chief is always pleased when one of his trainees reaches the top and is appointed a full professor. During the past two years eight former members of our resident staff have been so appointed: Dr. Wilbur A. Thomas at Albany Medical College; Dr. Alexander Ritchie at Toronto University; Dr. Benjamin Canlas at the University of the Philippines; Dr. Robert O'Neal at Baylor University, Houston; Dr. H. Robert Dudley (deceased) at Emory University, Georgia; Dr. Carlos Tejada at the University of San Carlos in Guatemala; and just recently Dr. Robert H. Fennell at the University of Pittsburgh and Dr. Winfield S. Morgan at Western Reserve University in Cleveland. To complete the record it might be added that of the residents who have trained in the Department in the past twelve years, one is associate professor and three are assistant professors and of the thirty hospital pathologists sixteen have medical school teaching responsibilities.

It is a pleasure to welcome to our full time staff, Dr. Wallace A. Clark, Jr., formerly professor of pathology at Tulane University Medical School in New Orleans. Dr. Clark, a well trained general pathologist, is especially interested in diseases of the skin and has already set up his research laboratory in electron microscopy on the dermatology floor of the Warren Building. He has a small laboratory in the Pathology Department, where he shares with the other members of the staff in the routine diagnostic surgical and post-mortem pathology and the presentation of the clinicopathological conferences. We welcome back to the laboratory Dr. S. Irwin Roth, who has completed his two years of Armed Services obligation at the Armed Forces Institute of Pathology where he carried out electron microscopic studies of the parathyroid gland as well as several pathological problems related to the skin. This research post of the Armed Forces Institute of Pathology fortunately is now filled by Dr. Wallace A. Jones, who left our department

for his tour of duty in the Armed Services last July. Two members of the Department received foreign research fellowships from the National Institutes of Health for one year: Dr. Leonard Atkins to work at the Institute of Genetics in Uppsala, Sweden; and Dr. F. Daniel Foley to work on diseases of the lung at Durham University, Newcastle upon Tyne, England.

With the retirement of Dr. Werner Mueller as pathologist to the Ear, Nose and Throat Service of the Massachusetts Eye and Ear Infirmary after long and faithful service, his post has been filled by Dr. Karoly Balogh, a former member of our resident staff. Dr. Balogh, who was trained in histochemistry by Dr. Richard B. Cohen, has set up a research laboratory in Dr. Schuknecht's department and will also continue on the M.G.H. staff as a member of the Pathology Department. Arrangements have been made for all the processing and diagnosis of tissues from that service to be carried out at the M.G.H. under the supervision of Dr. Balogh, thus bringing a closer liaison between the two institutions.

The Pathology Department was one of the first departments in the hospital to establish an association with a community hospital. In 1941 Dr. Castleman became the pathologist to the Emerson Hospital in Concord, Massachusetts, a post that he still holds. In 1946 we undertook the pathological examinations for the Brockton Hospital and continued this service until 1959, when because of the increase in size of the hospital we arranged for Dr. Richard Dickersin, who had just finished his residency training at the M.G.H., to become their full-time pathologist. In 1949, a close affiliation with the Memorial Hospital in Worcester began when Dr. Ronald Sniffen, one of our graduates was appointed pathologist at that hospital, where for many years we had rotated a member of our resident staff. Dr. Robert Harper, one of our recent graduates has just joined Dr. Sniffen as his associate. During the war we helped a few small community hospitals, including the Lawrence Memorial Hospital in Medford. A few years ago an association was established with the Beverly Hospital by appointing Dr. Robert Fienberg to our Associate Staff. This year we have added another tie with a community hospital by arranging for Dr. Sheldon Cooperman, who has just finished his residency, to be-

come pathologist to the Winchester Hospital. For the coming year Dr. George Kwass, an Assistant in Pathology, will become Director of Laboratories at the St. Vincent's Hospital in Worcester. These liaisons are helpful to the community hospital because when in need of help these young pathologists are able to bring their problems to our large staff of experts in the pathology laboratory. Also, the M.G.H. gains from the association because the problem cases are often referred to the M.G.H., and many members of our clinical staff are called in as consultants. Each of these young men are given M.G.H. and Harvard appointments and they usually spend one day a week in our laboratory performing a specific job and assist in teaching at the Harvard Medical School. All these activities are certainly attractive incentives for these positions, which would otherwise be difficult to fill. We are prepared to continue this policy of providing any community hospital within reasonable distance of Boston with a similar service.

In addition to our resident staff and research trainees supported by a National Institutes of Health training grant, each year we have a few clinical or research fellows from foreign countries who are supported by fellowships either from their own country or from a foundation. During the past year we were fortunate in having nine fellows from Japan, England, Mexico, India (2), Jamaica, Israel, Iceland and Argentina. Six of these fellows received grants from the Rockefeller Foundation, Lederle Foundation, Pan American Health Organization, Eleanor Roosevelt Cancer Foundation and the National Institutes of Health. In line with our international interests we were pleased to have visits from Dr. Alan C. Lendrum of Scotland, Dr. Brian Heard of London, Dr. Jethro Gough of Wales, Dr. T. Yoshida of Tokyo, Dr. George Edington of Nigeria, Dr. Erwin Uehlinger of Zurich, Dr. Kai Nielsen of Denmark, Dr. S. M. Jackson of Melbourne and Dr. Rolf ten Seldam of Perth, Australia, Dr. Nils Ringertz of Stockholm and Dr. Irwin Samuel and Dr. B. K. Aikat of India.

At the centennial exercises of the Armed Forces Institute of Pathology in September, which Dr. Castleman attended, emphasis was placed on the importance of geographic pathology to the Armed Services. Since our Armed Services may have to

place troops in any part of the world within twenty-four hours it is vital that knowledge of the diseases peculiar to each country be available. As President of the International Academy of Pathology, Dr. Castleman was instrumental in the establishment of a Registry of Geographic Pathology at the Armed Forces Institute of Pathology and is now Chairman of the Academy's Committee on Geographic Pathology. At the Academy meeting in Zurich last Summer Dr. Walter Putschar and Dr. Castleman conducted a slide seminar on diseases of bone before 350 pathologists from 33 countries. During this seminar Dr. Castleman paid tribute to Dr. Fuller Albright for his contributions to the recognition and understanding of hyperparathyroidism and fibrous dysplasia of bone (Albright's disease).

The research laboratories in the Department have been exceedingly active during the past year. Since his return from Sweden in 1960, Dr. Morgan has conducted studies of the protein and nucleotide components of the 105,000 x g supernatant of different rat tissues. He has been particularly interested in the liver and changes in these components have been studied after partial hepatectomy and after the administration of hepatotoxic agents such as carbon tetrachloride and dimethylnitrosamine. In another study he has utilized chromotographic technics in the isolation of rat renin. These methods have been developed to the point where renin can be isolated from as little as one rat kidney and should be helpful in studies of experimental hypertension in the rat. On April 1, 1963, after fifteen years of association with the hospital, Dr. Morgan will resign to take over the directorship of pathology at the Metropolitan General Hospital in Cleveland and become a professor of pathology at Western Reserve University School of Medicine. We all wish him well in this new position.

Dr. Lorna Gilmore is continuing to work out methods for quantitative analysis of adrenal steroids by thin layer chromotography, and eventually the methods will be applied to enzyme assays. Dr. George Kwass is analyzing steroid interconversions in vitro by gonadal tissue removed from patients with endocrine abnormalities and hopes to correlate these findings with the clinical and physiologic status.

Dr. Priscilla Taft, who is in charge of the Cytology Laboratory, is studying the size of the sex chromatin body in buccal smears and in tissue cultures from normal subjects and from patients with abnormalities of the X chromosome. At present there is a controversy about whether all or only part of one X chromosome forms the sex chromatin body, and studies of size and variation in size may contribute to the solution of this problem. Dr. Atkins, in collaboration with Dr. Taft, is carrying out a study of DNA synthesis in chromosomes by labelling cells in tissue culture with tritiated thymidine. Blood and tissues both from normal subjects and from patients with various chromosomal abnormalities are used. Karyotype analyses are made of cells in mitosis, and the pattern of thymidine uptake noted. Studies of this type have already shown that one X chromosome synthesizes DNA later in the mitotic cycle than the other chromosomes, and that there is a difference between chromosomes of the small acrocentric group (#21-22) involved in mongolism. The pattern is very complex, and further studies are needed to elucidate it.

Dr. James Caulfield has begun a study of calcification in mouse renal tubules induced by calcium gluconate and parathyroid hormone. Calcium gluconate induces calcification of the basement membrane below the epithelial cells of the pars convoluta, and the hormone induces intracellular calcification of the pars recta of the proximal convoluted tubule. In conjunction with the Biology Department of Boston University an examination of alloxan-induced diabetes and spontaneous diabetes in hamsters is being carried out. Since alloxan induces a fairly marked increase in the thickness of the glomerular basement membrane, as demonstrated by the electron microscope, this experiment may provide a model for the production of larger amounts of glomerular basement-membrane-like material and may assist in determining the source of this material.

With Dr. Herbert Krickstein, Dr. Castleman has challenged the common belief in most medical circles that adenomatous polyps of the colon often become malignant. They have shown that patients with lesions on a true stalk regardless of the histologic findings have an excellent prognosis, that metastasis from such a lesion is extremely rare, and that the overwhelming

majority of cancers of the colon arise as cancer de novo and not in adenomatous polyps.

In our radioisotope laboratory, Dr. Austin Vickery and Dr. E. Dillwyn Williams, a research fellow on leave of absence from Dr. I. Doniach's laboratory at the London Hospital, have devised methods for the histological localization of radioactive isotopes that remain in a soluble state. In association with Dr. Hubert Wolf, one of our research trainees, Dr. Vickery has been studying with autoradiographic and quantitative assay technics the in vivo and in vitro uptake of S^{35} in the metabolism of chondroitin sulphate in normal and neoplastic cartilage tissue.

The division of Neuropathology, under the direction of Dr. E. P. Richardson, Jr. has continued to be a center for teaching and investigation and on this basis was awarded a training grant from the United States Public Health Service. The chief interests of the members of the laboratory are vascular disease, demyelinative disease and metabolic encephalopathy of childhood. During October and November, Dr. Richardson was visiting neuropathologist at the University of Lausanne, Switzerland, where his fluent French enabled him to participate fully in the work of the hospital. Several years ago his thorough knowledge of the German language similarly facilitated his research activities at the Max Planck Institute for Brain Research in Germany.

I am pleased to announce that the colleagues, classmates and friends of Dr. Hugh Robert Dudley, whose sudden death last year shocked us all, have established a fund in his honor in the Pathology Department for the purchase of books and journals on musculoskeletal diseases, for which a section of the Mallory Library has been designated.

The statistics of the diagnostic examinations are as follows:

	1961			*1962*		
	MGH	*Outside*	*Total*	*MGH*	*Outside*	*Total*
Autopsies performed	821	177	988	933	211	1,144
Autopsy percentage	65%				65.3%	
Surgical Specimens	11,890	1,322	13,212	11,459	2,014	13,473
Microscopic Preparations	71,132					76,480
Cytological Specimens	12,293					13,606

BENJAMIN CASTLEMAN, M.D.
Chief, Department of Pathology

Annual Report of the John Collins Warren Laboratories of the Huntington Memorial Hospital of Harvard University

IT is customary to describe a tumor cell as uncontrolled in its growth, but we have little idea of what controls are normally operative or of how a cell may become unresponsive to them. It has long been known that feedback mechanisms occur between certain endocrine glands and target organs. For example, certain pituitary cells secrete thyrotropic hormone, which stimulates the secretion by the thyroid of thyroxine, which in turn inhibits the further secretion of thyrotropic hormone by the pituitary. This feedback inhibition cannot occur in mice whose thyroids have been removed; in such mice the pituitary cells are stimulated to grow and form tumors. These tumors, which can be transplanted only to other thyroidectomized mice and are completely suppressed by thyroxine, are called "dependent". During the course of successive transplantations, variant tumors may arise which grow in normal as well as thyroidectomized hosts. These variants are referred to as "autonomous". Here, then, is an intriguing situation in which the normally controlling agent (thyroxine) is known and cells of two types available, closely related in all aspects except their responsiveness to this agent. Using these experimental tools, Mr. F. L. Moolten, an undergraduate at Harvard Medical School, and Dr. Jesse F. Scott have tried to determine how thyroxine acts to control cell growth. They studied the rates of nucleic acid and protein synthesis in the autonomous and dependent tumors, before and after the administration of thyroxine to the tumor-bearing animals. In the dependent tumors, thyroxine treatment caused an inhibition of nucleic acid synthesis. This did not occur in the autonomous tumors, and protein synthesis was not affected in either type of tumor during the period studied. It appears that the acquisition of

autonomy by these mouse thyrotropic tumors is associated with a loss of susceptibility of nucleic acid synthesis to inhibition by the controlling agent, thyroxine. These results suggest that thyroxine acts on one of the biochemical steps in ucleic acid synthesis. Which enzymatic reaction is susceptible to thyroxine? Is the structure of this enzyme different in the autonomous tumors?

That such specific questions may be posed indicates that a great deal is now known about the structure of nucleic acids and proteins. Indeed we have now a pretty good idea of the nature of the genetic code, in which certain bases in a nucleic acid molecule stand for a certain amino acid in a protein. The biochemical steps by which this code is utilized are being sought out in many laboratories, and our own efforts have aimed for several years toward the purification of the transfer RNA specific for each of the twenty amino acids. This goal became considerably closer with the isolation by Drs. Paul Zamecnik and Mary Stephenson of appreciable quantities of valyl-RNA of the order of 90% purity. Currently, efforts are being made to increase the yield of this material, and to isolate in a similar fashion transfer RNA's specific for other amino acids. Drs. Peter Bergquist and Chuan-Tao Yu are trying to determine the sequence of bases in valyl-RNA by a variety of methods such as enzymatic and chemical degradation and nucleotide mapping procedures. With these techniques we expect to find somewhere in each type of transfer RNA a sequence of bases specific for a certain amino acid.

Dr. Robert Loftfield, who spent the past year in Professor F. Sanger's laboratory in Cambridge, England, has continued his interest in the frequency of mistakes in amino acid sequences in proteins, and at what stage of protein biosynthesis discrimination between two similar amino acids occurs. Preliminary studies indicate that the frequency of error is less than one in three thousand. Such accuracy is more than might be expected from the type of code now considered likely and raises the possibility of the occurrence of other mechanisms to restrict errors.

In recent years studies with bacteria suggest that a third type of RNA, called "messenger RNA," may be involved in protein synthesis, in addition to transfer RNA and ribosomal RNA.

This newcomer may be synthesized on the cellular DNA and migrate to the ribosome to serve as a specific template. Dr. David Allen has been interested in whether a similar RNA fraction occurs in mammalian cells. Dr. Marvin Lamborg has studied the effect of deoxyribonuclease on protein synthesis by cell-free extracts. It has been thought that the inhibition of protein synthesis by deoxyribonuclease was due to the destruction of DNA and consequent cessation of messenger RNA synthesis. Dr. Lamborg has preliminary and unexpected results which suggest that the deoxyribonuclease may act on the ribosome itself.

In our other major research area, the Endocrine Division under Dr. Lewis Engel, studies have continued on 1) the biosynthesis and metabolism of steroid hormones in normal and neoplastic endocrine tissues, both human and animal; 2) the purification, kinetics and substrate specificities of enzyme systems involved in the metabolism of hormones; and 3) probing experiments directed toward the elucidation of the mode of action of steroid hormones in the regulation of intermediary metabolism.

Dr. Irving Weliky has continued his exploration of alternative pathways for the biosynthesis of corticosteroids in human adrenal tissue. The most recent experiment completed was concerned with the study of the role of pregnenolone-7$^{\alpha}$-H^{3} and progesterone-4-C^{14} in the biosynthesis of corticorsteroids in adrenal tissue taken from a child with Cushing's Syndrome. In this experiment its was shown clearly that progesterone was converted to cortisol, to deoxycorticosterone, and to corticosterone, as well as to the more unusual compound, 16$^{\alpha}$-hydroxyprogesterone. Pregnenolone, on the other hand, was converted only to the 17-hydroxycorticosteroids, 11-deoxycortisol and cortisol. The distribution of the two isotopes revealed a pathway for the formation of cortisol that was independent of progesterone and, furthermore, showed that pregnenolone was *not* converted to progesterone. Progesterone has for some years been considered to be an obligatory intermediate in the formation, not only of the corticosteroids, but also of the androgenic and estrogenic steroids. This experiment disclosed a bypass. These observations, taken in conjunction with earlier findings

and other experimental data in the literature, have led the Endocrine Division to the conclusion that, as in the case of other metabolically indispensable compounds, the biosynthesis of corticosteroids and other steroid hormones can proceed by more than one pathway. The ability of the organism to manufacture these important metabolic regulators can be maintained, despite the presence of blocks and deficiencies in enzyme systems as a consequence of disease processes.

During the past year, Dr. Sharad Joshi has been able to obtain a 200-250-fold purification of a soluble TNA-dependent testosterone dehydrogenase. He used the classical techniques of salt fractionation supplemented by the more critical and powerful tools of iron exchange chromatography. While the best preparations to date are not single proteins, they are sufficiently free from contaminating enzyme activities to warrant their use for substrate specificity studies, to determine how alterations of structure of the testosterone molecule affect its rate of dehydrogenation and its binding to the enzyme. Although the number of altered substrates studied has been limited, the general conclusion can be drawn that planarity of the steroid molecule appears to be an essential characteristic of a reactive substrate. Stereochemical inversions or deletion of functional groups that decrease the planarity and rigidity of the molecule appear to yield less reactive substrates, while substitutions that introduce steric interactions and increase rigidity lead to more reactive substrates.

A long-term interest of the Endocrine Division has been the study of the properties of the estradiol dehydrogenase from human placenta. In the past year, thanks to the development of simple and effective fractionation procedures, it has been possible to prepare concentrates on this enzyme that are five to ten times as active as the earlier preparations. As well as permitting detailed re-evaluation of substrate specificities, these preparations promise to shed light upon the complex interactions between the DPN and TPN dependent estradiol dehydrogenases and the estrogen dependent transhydrogenase system that is present in such extracts. These three enzymatic activities have closely similar physical properties. However, it is hoped that refined chromatographic procedures will indicate

whether or not they are associated with the same protein molecule. This is an important enzyme system to study, since it constitutes one of the few well-documented instances of a stimulating effect of a steroid hormone upon an enzyme system. Its importance is further emphasized by the fact that in this system the steroid hormones are active at low and physiologic concentrations.

Diverse biological phenomena claim the interest of other investigators in these laboratories. In a group of 37 patients with Hodgkin's disease, Dr. Alan Aisenberg found that active disease was always associated with a loss of delayed hypersensitivity, even in patients in excellent condition with early and localized pathology. Normal skin reactivity reappeared in two patients when Hodgkin's disease had been quiescent for two years. In contrast to delayed hypersensitivity, normal antibody formation was observed in all these patients until a terminal stage of the illness. These observations are of interest both in regard to Hodgkin's disease and the relationship between antibody formation and delayed hypersensitivity.

Dr. Nancy Bucher has continued her studies on the nature of the homeostatic mechanism that controls regeneration of rat liver after partial hepatectomy. Her original studies with parabiotic rats suggested that the regenerative response was initiated by changes in the chemical composition of the blood. Subsequently, conflicting results have been obtained in various laboratories, and Dr. Bucher has begun an extensive re-examination of the problem, using as an index of regenerative activity the incorporation of C^{14}-thymidine into liver DNA. Extensive studies have been carried out to define the variables inherent in the experimental system. Among other things these studies showed that in adult rats essentially no DNA synthesis was stimulated until more than 30% of the liver was removed. When similar studies were carried out in weanling rats, in which the liver was already in a state of active growth, the threshold was much lower. In a series of studies, Dr. Bucher has so far been unable to reproduce the stimulatory effect of "regenerative plasma" or the inhibitory effect of normal plasma, for which there have been conflicting reports from various laboratories during the past ten years.

Our surgical colleagues, Drs. Hermes Grillo, John Burke and Charles Huggins, have continued their studies on inflammation and hypothermia. Using an implanted reservoir as a method of sampling interstitial fluid, Dr. Burke has compared the inflammation and hypothermia respectively. Using an implanted reservoir as a method of sampling interstitial fluid, Dr. Burke has compared the inflammation which follows histamine injection with that caused by staphylococci. The exudate of histamine inflammation persists for but a short time and the protein concentration of the interstitial fluid remains unchanged, in contrast to the changes that occur in staphylococcal inflammation. This data indicates a separate mechanism of permeability for the two stimuli and is strong evidence against the theory implicating histamine as the mediator of permeability in bacterial inflammation. Dr. Huggins has been particularly interested in the low temperature (-85°C) preservation of clinical units of blood and has standardized a practical method utilizing the protective agent dimethylsulfoxide. This agent is removed after thawing of the blood by causing the cells to clump and settle with 10% dextrose. After the supernatant is discarded, the cells are resuspended in neutral buffer, reclumped and finally resuspended in the original plasma. Large-scale clinical trials of blood preserved in this fashion are planned for the near future.

Cell populations which are synchronized, that is, all the cells in the same phase of growth, have interested Drs. Joseph Gardella and John Littlefield. Dr. Gardella has studied the effects of ionizing radiation on protein synthesis in synchronized cultures of *Tetrahymena pyriformis*. Dr. Littlefield has used synchronized cultures of mouse fibroblasts to investigate the mechanism of control of DNA synthesis. His experiments suggest that the DNA polymerase, which is found mainly in the cytoplasm, enters the nucleus at the time of DNA synthesis.

Dr. W. D. Sohier, Jr. has begun investigation on the effect of serum from cancer-bearing animals and patients on the metabolism of certain cells *in vitro*. The utilization of glucose and the incorporation of C^{14}-thymidine and C^{14}-valine were stimulated by addition of serum to the salt solution in which the cells were incubated. Preliminary experiments suggest that

sera from sarcoma-bearing rats produce a more variable and less effective stimulation.

The mechanism of control of various biochemical pathways during differentiation of the slime mold continues to interest Dr. Barbara Wright. Studies on glutamate oxidation, alkaline phosphate activity, and glucose metabolism have emphasized the importance of substrate concentrations in the control of metabolism. For example, the rate of CO_2 evolution of glutamate increased six-fold during differentiation. However, comparison of the Michaelis constant of the enzyme with the intracellular glutamate concentration during differentiation indicated that the accumulation of glutamate accounts entirely for the increased evolution of CO_2.

During the past year, four investigators have left the Endocrine Division for other posts: Dr. Caesar Briefer for residency training at the Massachusetts General Hospital, Dr. Weliky to become an Assistant Professor of Obstetrics and Gynecology and Assistant Professor of Biochemistry at the University of Pittsburgh School of Medicine, Dr. Weiert Velle to become Dosent in the Department of Reproductive Physiology in the Royal Veterinary College at Oslo, and Dr. Sharad Joshi to the Department of Physiology in the All-India Institute of Medical Research at New Delhi. To work in the Endocrine Division have come Dr. B. Kwaku Adadavoh from Ibadan, Nigeria, and most recently from the Royal Infirmary, Bristol; Dr. G. C. Alistair Renwick from the Hospital for Sick Children, London; and Dr. R. Bruce Wilcox from the Department of Biochemistry, University of Utah School of Medicine.

To the Protein Group have returned Drs. Loftfield and Zamecnik, each after a year in Cambridge, England. Dr. Kilmer McCully, who has previously served on the Medical Service of the M.G.H., and most recently at the National Institutes of Health, has joined the group as well.

In closing this report, we would express once again our gratitude to the Hospital and Medical School for providing facilities and an environment so conducive to research. We hope that our efforts will justify their faith in us.

PAUL C. ZAMECNIK, M.D.
Director

Report of the Coordinating Committee

THE reports of the member groups of the Coordinating Committee appear below for the Ladies' Visiting Committee of the Massachusetts General Hospital; the M.G.H. Service League and the Distaff Club. Elsewhere in the Annual Report will be found the report of the Board of Managers of the Vincent Memorial Hospital, also a member group of the Coordinating Committee.

MRS. R. MORTON CLAFLIN, CHAIRMAN, PRESENTS THE FOLLOWING REPORT FOR THE LADIES' VISITING COMMITTEE:

The Ladies' Visiting Committee in its 94 years of being a part of the M.G.H. has always sought to identify itself as closely as possible with the aims and aspirations of the Hospital. To understand the goals toward which the Hospital was striving and to offer its help wherever feasible has always been the purpose of the Committee.

In this contemporary period of great social change in our country, the Hospital faces new challenges. Persons expect as their right not only the best in medical care, but also the best in treatment as human beings. It is in this latter area that the Ladies' Visiting Committee hopes to make its contribution. By putting our minds to it, and by using our initiative and energy, we hope that we may continue to help the Hospital respond to the human needs—as distinct from the medical needs—of those persons who come to it for help.

Through our close and personal contact with the persons who have the responsibility of the Administration of the Hospital, we try to use our resources as creatively as possible. Thus in keeping with the Administration's new plan for refurbishing and upgrading the accommodations of the White Building, the Ladies' Visiting Committee began the redecoration of the White Lobby. The walls were painted, new lighting installed, new draperies were hung. This project has now become a part of the more extensive plan of the Administration for the Building.

Our interest in the work done by the Rehabilitation Unit on White 9 is abiding, and we have tried to demonstrate this by providing amenities for the increased comfort of the patients. Our hope has been that along with helping patients we also might give a feeling of support to Dr. Robert Jones and his fine Staff who give of themselves so unfailingly.

Our attention in past months has been turning toward the Clinics. We have been working with Miss Ruth Farrisey, Executive Officer of the Clinics, and are exploring possibilities of how Ladies' Visiting Committee can be helpful there.

The Coffee Shop plans are nearing completion, and its doors should be open by early 1964. We have joined with the Administration and the M.G.H. Service League in this project, and all of us are looking forward to the comfort and service this will be to our Hospital and patients' visitors.

Throughout the years, the Ladies' Visiting Committee has been called upon by the Hospital to finance new projects on an experimental basis, and this year at the request of the Administration we were asked to underwrite the salary of a Recreation Worker for two years. She has started this new patient service on White 5, and if it proves as beneficial as we hope, the service will be expanded eventually to include all areas in the Hospital where recreation for patients is needed.

The Ladies' Visiting Committee renders certain fixed and constant services to the Hospital and it is well to call attention to these. Ward visitors are regularly assigned to different floors with special emphasis on areas such as White 5 and Bulfinch 4 where patients are likely to be confined for a long time.

The General Store continues to serve the Hospital and our special appreciation goes to Mrs. Gardiner Fiske, Mrs. Francis C. Gray, Miss Anna Revere and Mrs. David Ferguson for their fine management of the Store. Mrs. Carl Warton and her assistants have continued to offer gracious service to our many customers. The 1962 financial report of the General Store operated by the Ladies' Visiting Committee for the benefit of the Hospital is as follows:

Balance on hand December 30, 1961		$21,672.01
Cash Receipts		88,211.93
Total		$109,883.94
Expenses:		
Salaries	$12,213.49	
Stock Purchased	61,629.16	
Utilities Charge	166.30	
Steel Doors	441.00	
Miscellaneous (Includes Excise Taxes)	572.05	
Total Expenses		75,022.00
		$34,861.94
Paid to Ladies' Visiting Committee from earnings		16,000.00
Balance on hand December 31, 1962		$18,861.94

SUMMARY

Receipts	$88,211.93
Expenses	75,022.00
Cash Gain	$13,189.93
Decrease in Inventory	248.00
Gain for 1962	$12,941.93

Value of Inventory December 31, 1962 $ 3,394.00

Patients being admitted to the Baker Memorial are served coffee or tea by the Baker Hospitality Committee throughout the year. In addition to serving refreshments, the hostesses often take patients to their floors and always try in any way possible to offer reassurance and a feeling of welcome to those about to enter the hospital.

The Traveling Store is taken throughout the Hospital to give patients the opportunity to do shopping from the bedside. In 1961-62 some 503 hours were given to this task by members of the Ladies' Visiting Committee.

The Children's Service Committee has continued to work with the Staff on Burnham to help make the hospitalization of children more acceptable both to the children themselves and to their parents.

Our Christmas Committee distributed trees, decorations and

paints to all floors requesting them, arranged for carol singing during the holiday season, mailed a program of Christmas events at the Hospital to friends of the M.G.H. The Flower Committee decorated the White, Baker, Warren and Phillips House lobbies and placed Christmas flowers and greens on the altar and side table of the Chapel. In Burnham a Christmas party was given in conjunction with the Recreation Workers there. Stockings were filled for the children and a present was given to each young patient.

The Chapel and Flower Committee kept attractive flowers on the altar throughout the year with special attention given at Christmas and Eastertime. The Committee was called upon by the Hospital to help at special occasions such as the Volunteer Tea and the ceremonies that attended the Kennedy Laboratory dedication. Mrs. Charles Almy has continued her devoted service to the Hospital through her chairmanship of this Committee.

The Furnishings Committee has responded to many requests from different departments of the Hospital for new draperies, furniture, slip-covers, etc. In the Phillips House, the Mabel Hovey Harris Room was redecorated making it the attractive refuge it was meant to be.

Mrs. William Constable and Mrs. Nelson Aldrich of the Art Committee have made many visits to the Museum of Fine Arts and have selected 32 oil paintings and over 75 water colors which have been lent by the Museum to the Hospital. All but a few water colors have been hung, and all are card catalogued with their descriptions and positions. They have also catalogued all other paintings owned by the Hospital as there have been many recent acquisitions to add to the existing files, especially the gifts of Mr. W. Lance, Mr. J. N. Rosenberg and Mr. Revis. Requests for pictures have come from doctors and staff with increasing frequency, the newest being from the Kennedy floors and from the Airport Unit. All requests have been met. They have obtained from travel agencies many large posters and so far have mounted and sprayed 25 of them with Krylon. These have been put in various places in the Clinics Building, on White 9 and at the Airport Unit.

The Ladies' Visiting Committee has been represented at all

meetings of the Volunteer Advisory Committee, the Coordinating Committee and the Social Service Committee.

In a world of conflicting social concepts, where voluntary institutions are being challenged by many, the M.G.H. and what it represents in human endeavor stands clear for all to see. The Ladies' Visiting Committee is proud indeed of its association with it.

MRS. H. DUNSTER HOWE, PRESIDENT, PRESENTS THE FOLLOWING REPORT FOR THE MASSACHUSETTS GENERAL HOSPITAL SERVICE LEAGUE:

The first full year of the Service League under its new name came to an end with a heartwarming record of activity. Formerly the Staff Wives Association, the nucleus of its membership remains interested wives of the Hospital Staff. However, its name was changed to the Service League in line with a desire to attract to membership other women who would like to share in its aims and projects. There followed a modest increase in the membership of non-staff wives, some of whom have assumed positions of responsibility.

The focus of the Service League is the Reception Center staffed daily by members from 10 a.m. to 3 p.m. (summer hours 10 to 1) in the outer lobby of the Hospital. Here are facilities to greet professional visitors who come to the Massachusetts General Hospital from all parts of the world. The number of visitors to the Hospital has remained fairly constant over recent years, but the services offered by the Reception Center have expanded and multiplied. During the twelve months' period of this report, desk workers welcomed doctors, nurses and technicians from 42 countries who came to the Hospital for varying lengths of time. There were 630 separate transactions recorded at the Center.

The international visitor was offered help in finding suitable living accommodations for him and his family: 103 were placed in 50 furnished rooms, 45 apartments and 8 houses. He was offered the loan of furniture which had been donated for this purpose and stored at the McLean Hospital, and 405 household pieces were lent to visitors from 17 different countries. He was offered tickets which had been donated by friends of

the Hospital. The Center distributed 225 of these tickets for Symphony and the theatre. He was offered hospitality in private homes on holdiays and, on a more casual basis, he and his family were invited to luncheon or informal dinner. He was invited to the two teas which are held during the year for the purpose of bringing staff and visitors together and to the traditional picnic on Memorial Day on the grounds of the Cannon home in Lincoln.

The Service League sponsored 15 concerts in the Chapel for an average audience of fifty, composed of wheel chair and ambulatory patients and visitors. Twenty-five volunteers escorted patients to the concerts and back to their rooms.

In the spring an Information Desk was established to help direct the mainstream of traffic in the Hospital corridors. This is manned daily on morning and afternoon schedules in an attempt to create a sympathetic atmosphere for patients and visitors.

Community chairmen entertained at fall coffees to spark interest in suburban areas and, also, in some communities scheduled spring meetings with Distaff members as well. The Service League shared sponsorship of the Spring Dinner Dance with the Distaff Club.

A successful innovation was a February luncheon for the membership at which the guest speaker Mrs. Isabella Halsted, Executive Director of the Boston Council for International Visitors, spoke on "Boston's International Opportunities". Dr. John H. Knowles spoke at the annual meeting on future plans for the Hospital. Mrs. Vincent Perlo retired after two years of devoted service as President.

Representatives attended meetings of the Greater Boston Regional Council on Hospital Auxiliaries (of which Mrs. Alfred Kranes, our former President, was Chairman), the Massachusetts Hospital Association, the New England Hospital Assembly and the American Hospital Association in Chicago. Meetings of the Volunteer Advisory Committee and the Coordinating Committee of the Hospital effected a sharing of effort between all volunteer groups and hospital departments.

For the year of this report, the Service League has been limited to the specific functions enumerated above. Its future

value to the Hospital hinges upon recruiting an actively interested membership who will continue the going projects and answer needs in other areas of the Hospital. Its success may be limited by the physical magnitude of the Hospital and the diversity of its endeavors and demands, hopefully not by lack of imagination or disinclination. As its name indicates, it renders a purely service type of auxiliary function. This year's accomplishments evidenced a sense of dedication and purposefulness which should stand the Hospital in good stead in years to come.

MRS. GEORGE CANELLOS, PRESIDENT, PRESENTS THE FOLLOWING REPORT FOR THE DISTAFF CLUB:

The Distaff Club is composed of the wives of House Officers and Fellows as well as any ladies who are professionally associated with the Hospital as House Officers or Fellows and wish to become members.

The purpose of the Club is twofold: social and service. The social program included general meetings, area meetings and special parties. During the period from October 1, 1961, to September 30, 1962, there were several general meetings at which the members were very fortunate to be addressed by distinguished guests with whom they became better acquainted during the coffee hour which followed each meeting. On October 3, Mrs. Oliver Cope spoke on "The Community and You". On October 29, Dr. John Constable discussed "Inside Boston Today" at a Hallowe'en Party in honor of overseas visitors which was held at the home of Dr. and Mrs. Walter Bauer.

Mrs. Charles Huggins graciously invited the Distaffers to her home on November 8, to hear Dr. Jean Hallenbeck speak on normal child development. November was also noteworthy in that Dr. Paul Dudley White discussed his world tour and illustrated it very colorfully. In February, the Distaff Club toured the Museum of Fine Arts and heard Mr. William J. Young give a fascinating talk on "Fakes and Restoration in Art".

The wives' clubs of the Boston City Hospital, the Peter Bent Brigham Hospital and the Children's Medical Center joined the

Distaff Club on March 13 to hear the Reverend Norman O'Connor discuss jazz.

All the general meetings were interesting and one of the most exciting took place on April 24 when Mrs. Mary Bunting, the President of Radcliffe College, spoke before an enthusiastic audience from the MGH Service League, the Ladies' Visiting Committee, and the Distaff Club on the education of women.

After a pleasant summer in which new plans for the Club were formulated, the members gathered in late September to hear Judge Jennie Loitman Barron discuss "A Day in Court".

In addition to the opportunities to get acquainted socially at the general meetings, there were three area meetings in the winter, spring, and fall. Those who were present enjoyed the company of close neighbors and the informality of chatting in one another's homes. The spring meetings were especially pleasant since they were graciously hostessed by the area chairmen of the Service League in their homes.

The two parties which provided a more formal environment for meeting with friends were the Christmas Cocktail Party; and the Spring Dinner Dance which was planned jointly with the Service League.

The service aspect of the Club's activities included individual volunteering in the Hospital, the presenting of a Valentine's Day Party for the children in Burnham, the wrapping of over 500 gifts for the M.G.H. Children's Christmas Party, and the creating of murals for the Children's Clinics. The financial support for these projects was provided by the dues of each active member, by a bake sale in November, and by a gift of one hundred dollars from the Ladies' Visiting Committee.

Communications and reports on the progress of all the above activities were maintained through the publication of a *Distaff Directory* and four issues of the *Distaff News*.

During the period covered by this report, new officers of the Club were installed. Those who were in office for the greater part of this period were listed in last year's report. The elected and appointed officers serving from the spring of 1962 until the spring of 1963 were: Mrs. George P. Canellos, President; Mrs. Anthony P. Monaco, Vice-President; Mrs. William L. Strickler, Secretary; Mrs. Donald McKee, Treasurer; Mrs.

Nicoll F. Galbraith, Directory Secretary; Mrs. David B. Skinner, Distaff News Editor (with one issue published by Mrs. Nelson R. Lampert); Mrs. Gustave Mueller, Housing Chairman; Mrs. James F. Spann, Hospitality Chairman; Mrs. Guy M. McKhann and Mrs. Joseph W. Burnett, Service Co-chairmen; Mrs. Phillip W. Majerus, Publicity Chairman; and Mrs. Leslie W. Ottinger, Area Coordinator.

Report of the Advisory Council of The Massachusetts General Hospital School of Nursing

THE eight regular monthly meetings of the Advisory Council were held from September 1961 through May 1962 with the exception of December.

The changes and improvements in the educational programs of the School of Nursing have been the major topics for discussion at our meetings during this year.

The Massachusetts General Hospital School of Nursing plan which is affiliated with Northeastern University was initiated in September 1962. Many of the applicants for this program have applied for scholarships, the funds for which have been raised both by Northeastern and the Massachusetts General Hospital. Together, the two institutions raised $30,000.

The improved curriculum enables a student to receive a diploma in nursing and the degree of Associate in Science after three years and, thereafter, permits her to work for her Bachelor of Science degree if she choses to enter the cooperative work study program at Northeastern.

In July, 7 college graduates were admitted to the Coordinated Program conducted by Radcliffe and the Massachusetts General Hospital School of Nursing and 141 were admitted to the Diploma Program. In September, 105 seniors were graduated. The scholarship fund of the School has increased considerably during the year due to contributions in memory of various Massachusetts General Hospital alumnae. Financial aid totaling $5,350 was given to the entering students, and $6,625 was presented to those already enrolled in the form of remitted tuition. In spite of our raise in tuition, it is surprising how few students have applied for loans from the fund set up by the Trustees patterned after the established Intern and Resident Fund.

A successful innovation this year was the Parents' Day Program planned for the second year students by the faculty and the Advisory Council. This included two Saturday meetings, luncheons and tours of the Hospital in November and December with half of the class and their parents attending each day as the entire number could not be accommodated at one time.

Panel discussions were conducted by the students describing the second year affiliations of three months each at McLean Hospital and the Boston Lying-In Hospital, and in the Pediatric Service of M.G.H.. A fourth student described the activities of the Student Nurses' Cooperative Association. This panel was repeated later for the Advisory Council as part of our study of the over-all educational program of the School and the changes in curriculum.

As considerable revision in the patterns of clinical teaching is taking place, the Council was particularly interested in hearing Miss Audrey Brady and Miss Dorothy Taylor, co-chairmen of the Medical Surgical Nursing Course, describe the new approach which centers on patient problems and their care as contrasted to the previous mode of teaching, the focus of which was on the various systems of the body and the particular disease. The new patient-centered appproach to nursing has had an enthusiastic response from students, members of the nursing staff and doctors, and the Council will look forward to examining corresponding changes in other areas.

Miss Irene Norton reported on the Exchange Teacher Program instituted by the Rockefeller Foundation several years ago for the purpose of assessing the teaching programs and methods in three systems of nurse education—the Massachusetts General Hospital in Boston, The Royal Victoria Hospital in Belfast, Northern Ireland, and the Atkinson Memorial School of Nursing, Toronto Western Hospital, Canada. She had spent nine months in Toronto and two months in Belfast.

The joint luncheon meeting of the faculty of the Massachusetts General Hospital School of Nursing and the Advisory Council took place in November. Miss Ruth Pitt, Chairman of Admissions and Recruitment Committee, explained our admissions policy and the problems involved in making the choice

of applicants due to the constant change in the pattern of nursing.

Dr. John Keller, Physician to the Student Health Service, spoke to the Council concerning the importance of keeping our students both physically and emotionally well. His many responsibilities include the study of health reports presented by entering students, annual physical examinations, daily availability for appointments to discuss the students' problems and symptoms, referring them to other doctors when necessary.

The Advisory Council is kept up to date monthly on the changes in the over-all picture of nursing. The comparative statistiscs of scheduling and the distribution of staff nurses was reported to the Council by Miss Edna Lepper who was elected by the Alumnae Association to fill the unexpired term of Miss Barbara Moulton. Also, we are alerted to the various innovations such as the new card index plan for medicines on White 6, to mention only one.

The Trustees' Committee to the School of Nursing and Nursing Service has met four times during the year, and we are most grateful to the Chairman, Mr. John E. Lawrence, for his thoughtful presentation of some of the School's problems to the Trustees.

In closing, the Council again wishes to emphasize the physical needs of the School—a separate school building, an adequate library, and increased housing facilities for graduate nurses.

Miss Sigrid Edge, representative from the field of education, and Mrs. Penelope Kahr Hope, representative from the field of health, completed their terms of office at the annual meeting in May, 1962. Their contributions to this Council and to the School of Nursing have been great, and we shall miss them.

FRANCES J. FAHNESTOCK,
Chairman

Massachusetts General Hospital
Nursing Department

	1962
Average No. of Graduates on General Hospital Staff and Clinics	257
Average No. of Graduates on School of Nursing Staff	50
Average No. of Graduates on Baker Memorial Staff	81
Average No. of Graduates on Phillips House Staff	86
Average No. of Students	339
Average Total	813
Total No. Freshman Students Admitted (includes Degree)	147
Students Dropped and Resigned (includes Degree)	49
Students Graduated (includes Degree)	92
Average No. of Graduates on General Hospital Staff—*Part Time	18
Average No. of Graduates on Baker Memorial Staff—*Part Time	20
Average No. of Graduates on Phillips House Staff—*Part Time	15
Total *Part Time Graduates	53

CENSUS OF THE NURSING SERVICE AND SCHOOL OF NURSING
October 1, 1962

Graduate Nurses, General Hospital and Clinics	283
Graduate Nurses, School of Nursing	50
Graduate Nurses, Baker Memorial	85
Graduate Nurses, Phillips House	89
Total	507
STUDENT NURSES:	
Students three year program	370
Students Coordinated Program with Radcliffe College	12
Affiliating students from other schools	61
Total	443
TOTAL GRADUATE AND STUDENT NURSES	950
NUMBER OF STUDENTS ASSIGNED OUTSIDE THE GENERAL HOSPITAL	
Baker Memorial	
MGH students	21
Incoming Affiliating students	9
Phillips House	4
Boston Lying-in Hospital	24
McLean Hospital	24
Public Health	2
NUMBER OF STUDENTS AFFILIATED IN 1961-62 FROM:	
Simmons College School of Nursing	27
McLean Hospital School of Nursing	38
New England Baptist (The Clinics)	60

*Part time nurses expressed in equivalents of full time.

The Nursing Department

The School of Nursing

IN September, 141 freshmen entered the School of Nursing; 118 to follow the requirements of the *Standard* freshman program, and 23 to spend 35 weeks in affiliation at Northeastern University in our newly established *Alternate* program. Both Standard and Alternate programs are three years in length, both lead to the M.G.H. diploma. However, students in the Alternate program who carry a course successfully at the University in their second and third nursing school years will also receive an associate degree in science from Northeastern. Decision to enter the enriched program was made by the applicant and her family after acceptance in the School of Nursing.

In comparison to the Standard program the Alternate or enriched plan is costly. The freshman entering the Standard program pays $550.00 tuition. Other charges for the first year, including fees, uniforms, and books, bring the total to $807.00. For this the student receives her instruction and full maintenance. While at Northeastern our freshman student pays $1,025.00 tuition, an additional $840.00 for residence if she lives at the University, and fees bringing the total to a minimum of $2,073.00. She must also pay $400.00 for the summer session at the School of Nursing.

In the hope that choice of program might be based on interest and academic ability rather than on ability to pay the increased costs, the University and the Massachusetts General Hospital together provided funds for financial aid. Eighteen hundred dollars was given this year to students in need of assistance.

Academically the Alternate program should be rewarding. The M.G.H. freshman in this plan is matriculated at the University, is enrolled in regular college courses, enjoys the privileges of the University, and shares for these 35 weeks, if she

will, in the campus life. Yet, she is not forgotten at the School of Nursing. A Nurse Coordinator, Miss Irene Norton, a member of the faculty of the School of Nursing will spend two full days each week at the University, teach the course in Introduction to Nursing, and share in the counseling program for these students with the Dean of Women. Miss Norton has spent the better part of this year in planning with the M.G.H. and Northeastern faculties. The M.G.H. Student Nurses' Organization plans to include the on-campus freshmen in various meetings and social affairs to cement home school relationships.

As this report is written, the newly registered freshmen are settling in, and it is time again to plan for another year. The nursing school conducted by a hospital today finds itself seriously challenged. On the one hand, the Nursing Profession presses to increase formal education and to wipe out all possible traces of the old apprenticeship system. The competence and the status of the graduate of the hospital-conducted school is questioned. Some would classify our graduates as technical nurses, as contrasted with the professional nurse, a graduate of a university or college program in nursing. Our faculty does not question the narrowness of our curriculum, or the value of a liberal arts base for education which is to be truly professional. We do question a title which appears to emphasize only the mechanical devices, important as they may be to save life, and to omit the personal aspects inherent in our concept of nursing care. On the other hand, the doctor and the growing hospital population demand numbers of nurse practitioners beyond today's combined production of the four-year programs of the university schools, the two-year programs of the junior colleges, and the three-year programs of the hospital schools. Although quality is not forgotten in these demands, sickness will not wait while more nurses are prepared, so the quantitative emphasis often seems to take precedence. There are also the problems of the hospital, whose fiscal officers watch the student nurse's declining contribution to patient care, and the mounting costs for the educational program.

Mindful of these conflicting pressures, the faculty have tried again to re-evaluate our programs in relation to the School's primary objective and future development. Study of the de-

mands of the teaching hospital, as illustrated by the Massachusetts General Hospital today, foretells the competence requisite in the years ahead. We accept the fact that two levels of nursing education will be needed, but we believe the truly professional program in nursing to develop leadership should be built upon a four-year liberal arts program, and the other program, whatever it may be called, to develop patient-side nurses should include enough liberal education to enable the practitioner to progress as medical care and social planning change. The Coordinated Program conducted with Radcliffe College could provide the former if it could be moved into a university ready to establish a sound plan for college women. As now conducted, this program admits only graduates of liberal arts colleges, offers a program geared to meet the needs and challenge the abilities of the college woman, but lacks the opportunities which these able women could have with full access to the academic privileges which only a university can provide. Our recommendation for the future of this program is clear.

It is less easy to plan for the Standard three-year program. There are complications arising because space is lacking, costs are rising, and there is a shortage of prepared teachers. Another year has passed without the acquisition of adequate class room and library facilities. The quality of teaching can compensate for the long distances between class rooms, but no amount of emphasis on the values of library study can convince the student of our sincerity when chairs are too few and shelves are too crowded to hold newly acquired books.

All schools of nursing suffer from lack of broadly prepared nurses with sound preparation for teaching. The hospital conducted school more and more often is the last choice of many nurse instructors who find the program, the college calendar, the academic associations and the pay more attractive in the university and junior college schools of nursing. Thus far our School of Nursing has been fortunate in the replacement of its teachers, but we start the year with one unfilled position for an Instructor in Operating Room Nursing and a pending resignation from an Instructor in Orthopedic Nursing.

As salaries for teachers advance and the cost of maintenance rises, the deficit of the School of Nursing mounts. Reconsider-

ation of tuition and other charges should be undertaken soon after the new fiscal year begins. At this same time the need for student aid should be re-emphasized. Unlike the college student, the students in our program have no prolonged vacation periods in which to earn, and so are somewhat more dependent on financial aid than are others. Through the generosity of friends the School of Nursing received $70,000 to establish the William C. and Jessie B. Cox Scholarship Fund, the income of which will be used for student aid. Several substantial gifts were also received from alumnae of the School, the M.G.H. Club of Washington, D.C. and the Alumnae Association. All were greatly appreciated. The School this year gave over $7,000 in remitted tuition. With invested monies yielding annual income for student aid, students may continue to receive the help they deserve and the School less often deprived of needed income.

In conformance with present day practices, the McLean Hospital School of Nursing began to send its own instructors with its students coming to the Massachusetts General Hospital for medical and surgical nursing. Courses in operating room nursing, ambulatory nursing, and nursing of the child continue to be our responsibility.

Since 1919 students in the Simmons College School of Nursing have come to the Massachusetts General Hospital for instruction and experience. Until 1959 instruction was given by our faculty. Now except for operating room nursing the Simmons College faculty carry full responsibility for instruction wherever it may be given. In conformance with College policies all Simmons College students living in our residences this year have paid both board and room. As this school year, 1962-63, begins, the final step has been taken to place the nurse students in comparable relationship to other college students. The Simmons College students in Nursing now live on the College campus and come to the Hospital for scheduled hours of field practice on wards designated for their use by the Nursing Service.

In the fall of 1961 the first Family Day was held for parents of the junior students. For the most part the program was carried by the juniors who showed through panel discussion

the second year program, and the activities of the Student Nurses' Organization. Tours conducted by the juniors added opportunity for parents to learn at first hand what their daughters' education in nursing included. The students and faculty were assisted both in the program and at the luncheon by members of the Advisory Council. Letters from parents indicated the worth of the information and interpretation possible at such a meeting.

In September, Miss Irene Norton and Miss Constance Holleran, the two teachers sent by the School on the Exchange Program, with the Director of the School of Nursing, attended the final conferences on the Teacher Exchange Program in London. The official report will follow during the coming year. We now know that this School has much to give to teachers who come for a period of time sufficient to participate in actual teaching and in the committee activities fundamental to the School's operation and progress. We know also that our instructors can learn much from such an experience, and that they too can adjust in and contribute to educational programs which differ widely from our own. We are extremely grateful to the Rockefeller Foundation whose grant made this exchange possible.

The Nursing Service

In the report for 1961-62, the Nursing Service expressed the need for some method by which the changes in patient census might be predicted to make possible plans to meet sudden increases in numbers of patients. Changes in admissions this year have in part answered our question. If 1961-62 is an index to the future, no matter how wide the daily fluctuation in numbers we know we must be prepared to care for occupancy close to 100%. A comparison of the average number of patients in the Hospital during each period in 1961-62 as compared with previous years shows the steady increase.

Years	*Highest average occupancy*	*Lowest average occupancy*
1954-55	777	635
1955-56	840	645
1956-57	800	678
1957-58	839	675
1958-59	864	718
1959-60	853	722
1960-61	919	721
1961-62	925	792

It should be noted that the lowest average this year exceeded the highest average only eight years ago. To interpret these figures correctly in terms of demand for nursing care some means must still be found to show the difference today in patient illness, type of surgery performed, complicated technical devices used, complexities of medication, and the increased time which should be available to meet the emotional needs of patients undergoing this new therapy. When bed occupancy is high and waiting lists build up, the patients with most critical need must have priority. There are then both more patients and a higher ratio of patients needing critical care. Random samples of our patients taken in the spring showed that 25% of the patients in the hospital were in need of critical and intensive care.

In the past most patients with critical needs and many patients who needed intensive care were specialled. Although much assistance today is secured from private duty nurses, the proportion of our patients who need and may have this extra care grows smaller. Fewer private nurses are available, and of the existing number those prepared to work with the new devices or technics now employed are less often to be found. To keep step with the doctor in this Hospital a nurse can no longer be a generalist. If she is to care for patients having cardiac surgery she must become an expert in this care. She then hesitates, and rightly so, to assume responsibility for a child who has had brain surgery, or a medical patient undergoing peritoneal dialysis.

It is common practice to have 8 to 10 unfilled requests for private nurses during the evening and night periods, each, in the White Building, the Baker Memorial, and the Phillips House. Seldom if ever will a private nurse go to the Burnham. The floor staff with schedules already crowded must then assume the added responsibility for patients needing constant observation and care. How to choose the most important needs? How to help the doctor to understand the nurse's dilemma? When too much or the impossible is expected too long of a nurse, when a nurse knows that she cannot encompass the demand, when she realizes that the Nursing Administration knows her dilemma and yet sends no help, morale drops and nursing care suffers. The Nursing Service has yet to find the way to interpret objectively but honestly to the Medical Staff that when several doctors order, for example, fifteen minute or half hourly blood pressures for their several patients, there is little or no time to turn patients or carry out what may actually be more essential observations or care. Probably in no other type of occupation is the *work load* less controllable than in nursing. There are no limits to the numbers of orders each patient may have, no balancing of orders to provide time for greatest need, no opportunity for the doctor to know the over-all situation. And each doctor continues to order for each of his patients without regard for the situation as a whole. Expanding and uncontrolled demands cannot continue indefinitely. Sooner or later the questions must be answered: Who is in the best position to decide which patients must have the special nurse, or which shall go to "board", or to which patient unit the new admission should be sent? Also, is this the time to plan for a continuing diminution of private nurses, and a persistent increase in the need for special care?

In spite of pressures the number of staff nurses employed has increased. A pay increase in September helped both to hold and to attract. Effective efforts by the Personnel Department kept a steady flow of applicants to replace losses during the year. Numbers of staff nurses employed at the end of each period for the past eight years shows growth consistent with but not equal to the increase in patients and their critical needs.

Years	*Highest employment*	*Lowest employment*
1954-55	236	201
1955-56	274	160
1956-57	229	198
1957-58	349	269
1958-59	310	237
1959-60	324	284
1960-61	352	269
1961-62	360	305

Were these nurses equally distributed, the effect of this increase would be more generally evident. Three units showed greatest gains, the combined Operating and Recovery Rooms, the Phillips House and the Vincent-Burnham. The White Building and the Baker Memorial, the most difficult buildings in which to nurse, showed a loss. Furthermore were these all full time nurses the supply would be more ample. The part time nurse though helpful is inflexible, less available for evening and night assignment and for weekends, the most difficult periods of all to cover.

Following the installation of the Proudfoot scheduling procedure in the Baker and the White Building two years ago, the Nursing Service Administration began to search for means whereby this procedure might be tied in with our general planning. We hoped to insure the continuance of the plan, to make the process as simple as possible for the head nurse, and yet of value to Nursing Service in its planning. As the procedure was introduced, the schedules covered only the day period. The process, now extended to evenings, shows the heavy evening load from admissions and late operations, and from the evening orders and activities of the House Staff. Except for bed making and baths, the evening period equals and at times exceeds the business of the day period. The schedules show greatest lacks in staffing in units where much of the day's work is carried on by the House Staff during the evening period.

Various approaches have been made to find solutions. In the spring Dr. Murray Melbin, Assistant Social Scientist at McLean Hospital, studied "incidents of absenteeism as a precursor to

resignation." Primary cause for dissatisfaction and absenteeism seemed to be, first, in the requirement to rotate from a day to an evening and a night assignment, and second, the need to *float* from one ward to another to fill an urgently needed post. The employment of a highly skilled float corps, a kind of flying squad, to fill gaps and relieve critical areas was the major recommendation. Attention has been given to such a corps in the past, and will be continued during the new year. Attention has been given to some change in rotation schedules as nurses have been hired for the coming year.

Miss Mildred Tapper, Coordinator of Staff Education, participated in a pilot project sponsored by the National Training Laboratories. Her study "To Understand the Role of the Head Nurse" included all head nurses. The results of this investigation are being prepared for discussion with the head nurses during the fall.

Without doubt the most promising activity of the year was the final study and planning for the introduction of the Unit Manager plan. Efforts culminated in May with the employment of Mr. Walter Hall, a management engineer, as Coordinator of Unit Managers. Under this plan the functions of ward management are separated from those involved directly with patient care, the former to be carried by a non-nurse, the latter to be the responsibility of the head nurse and her staff. The unit manager and the head nurse will work as co-equals. The unit manager will direct the ward secretary, ward helper and utility aid, the non-nursing personnel. It will be the function of this group to facilitate the activities of the nursing care staff, to relieve the nurses of secretarial, business, maintenance, and other functions which, though important to good patient care, do not require nursing skill. These are the ward "service" functions. The head nurse so relieved can then concentrate on the "care" responsibilities, and the supervision and teaching of her staff. It is hoped there will be more time for rounds, much needed planning with the doctors, and other assistance to the Medical Staff.

The head nurse and staff on White 10 were oriented to necessary changes and the first unit manager was trained and assumed her duties in July. The second unit developed was

White 11, which had had a modified unit manager plan but without separation of authority. Other units will follow during the coming year. Early results indicate that head nurses find the plan of definite value, are ready to hand over non-nurse functions to a co-equal in administration, can work comfortably with a second administrator on the unit, do have more time to direct and guide the staff in the care of patients she now can know.

Meanwhile other developments have occurred. The Nursing Service through its Committee on Disaster participated in two fire control training programs and developed in coordination with the Hospital Fire Marshall a revised training program for its staff. In addition to the disaster nursing program given to nurses, the course on Medical Self Help set up by the United States Public Health Service and the Office of Civilian Defense was offered to lay members of the Nursing Staff and to those from other Hospital Departments who wished to attend.

As plans crystallized for the Massachusetts General Hospital Logan Airport Medical Station, Miss Grace Bissonnette, a nurse with unusual experience and preparation in industrial nursing, was employed and oriented to the Hospital.

The Nursing Practice Committee maintained a constant study and revision of existing practices in nursing, and wrote new procedures needed as medical changes occurred. The revised manual of M.G.H. Nursing Procedures, printed during the summer, has already demonstrated its value on our own units, and has been sought by nurses, doctors, and hospitals in other parts of the country. Our appreciation is recorded here for the assistance given by Mr. Ralph Cluff, whose efforts in the Print Shop produced such an attractive book.

With the assistance of the senior worker in the Burnham Recreation Service, a new and much needed plan for recreation has been developed for White 5, for those patients whose stay can be long and tedious.

Such a report as this cannot include the departmental changes made or the contributions of all staff members, although these make possible whatever progress the Nursing Department, the School of Nursing and the Nursing Service may have made.

We do wish to express our appreciation for the salary increase in September, for the equipment which has facilitated our patient care, and for the remodeling of wards, corridors, and small areas in the nurses' residences.

Every group within the Department has carried its share in interpreting the Hospital both at home and in the community. Each has shared in professional activities locally and nationally. Many have sought to enhance their abilities through attendance at meetings and through courses carried in the universities. The Director wishes especially to thank the Trustees and the General Executive Committee for her opportunity to speak for Nursing as a member of that Committee.

RUTH SLEEPER, R.N.
Director of the School of Nursing and Nursing Service

Report of the Social Service Department

THE avowed goal of this Hospital as a community care-taking agency of the sick and troubled is to achieve gains or optimal well-being for its patients. This is accomplished under basic concepts of care and practice which include both applied science and knowledge and the art of care-taking. In the art of care-taking, positive and responsible attitudes toward patients as individuals are joined with knowledgeable aptitudes; otherwise patients get lost in the abstraction of disease and techniques. With increasing scientific knowledge it often has become difficult to maintain the *art* for all disciplines involved in the care-taking field.

In the past year attempts to achieve these goals have required almost overwhelming efforts by all. This year the Department served 7,440 patients, an increase of 643 over the past year.

PATIENT REFERRALS

(During 12-months period, October 1 - September 30)

1960-61

Referrals	*Clinic*	*Ward*	*Total*
Carried forward from 1959-60	798	357	1,155
New	1,849	2,222	4,071
Reopened	498	484	982
For Limited Service	162	427	589
TOTAL	3,307	3,490	6,797

1961-62

Referrals	*Clinic*	*Ward*	*Total*	*Increase*
Carried forward from 1959-60	889	357	1,246	91
New	1,759	2,588	4,347	276
Reopened	503	564	1,067	85
For Limited Service	356	324	780	191
TOTAL	3,507	3,833	7,440	643

In addition, there were 261 recurrent referrals in 1960-61 and 363 in 1961-62, showing an increase of 102.

Cold statistics rarely tell the story for we find that the problems and needs have increased in severity. They have often had to be met with haste, pressure and lack of adequate community resources attuned to work at the same tempo and flexibility. The title of a current play in New York, "Stop the World I Want to Get Off", vividly expresses the feeling of many of the staff as they struggled this year to meet the demands for service.

The greatest increases were in the Alcoholic Service with its demonstration project under the grant from the National Institute of Mental Health; in the Medical Clinics where, under the leadership of Dr. John Stoeckle and Miss Ruth Sittler, many ill, depressed and deprived people need understanding supportive care in their life situations. Children's Service had marked increase in both Ward and Clinic with emphasis on service, teaching and study. Psychiatric Service Adult Clinic and Ward, Neuro-Medical Wards and Surgical Wards show high percentage increases. Coupled with these increases we have had a young, relatively inexperienced but dedicated staff of whom 19 out of 41 have had two years or less of practice.

The Hospital's great contribution to the community through its "Open Door Policy" is a valuable one, and social services are an important and vital part. To meet and help the patients and families at point of greatest anxiety and crisis may dilute the trauma and, through early intervention, be a truly preventive service. Operating seven days a week and twenty-four hours a day, hospitals and their staffs are literally the only community agencies meeting peoples' urgent needs, seven days a week, whether physical and/or psycho-social. In the Emergency Ward Alcoholic Unit staffing seven days a week from 9 A.M. to 10 P.M. has shown the value of readily accessible social services for many patients and families. If we are the only available social agency on night and weekends, adequate community support should be sought. With limited community dollars, priorities must be set, but set with adequate and studied knowledge of needs and planning. This same setting of priorities and use of time must be faced in our own Department by study and more use of aides or social work assistants, a project we hope to start this coming year.

Psychiatry and Mental Health

A major service to the community is that given by this Hospital in the important field of Mental Health although a community survey recently made did not include these hospital services. While it is hard to get an unduplicated count of patients in the Department of Psychiatry, between 6,000 and 8,000 patients were treated. In the Psychiatric Social Service Unit, 1,935 patients were served, an increase of 297 over last year. Of those served, 680 were carried on a continuous basis. These numbers stand high in relation to other psychiatric agencies receiving substantial community support.

"Establishing Treatment Relations with Alcoholics" by Dr. Morris Chafetz and his staff of psychiatrists and social workers, published in the *Journal of Nervous and Mental Diseases,* May 1962, describes one of the important Mental Health program demonstrations.

Children's Service

Always an important service, this year this service has taken on added requests for work, both in numbers and activities, beyond our capacity to meet. Dr. Nathan Talbot's and Dr. Richard Kearsley's study project is one. Dr. John Connelly's interest in investigating long-term care of the chronically ill child, combined with teaching this to medical students, has required Mrs. Peregrine Spiegel's making visits with Dr. Connolly and medical students to patients' homes, local doctors, community agencies and schools, as well as trying to cover the direct service demands of the wards.

In spite of this almost overwhelming assignment, Mrs. Spiegel writes: "One cannot help but feel satisfied when one participates in arrangements to have a 9-year-old boy go to live with his family in his own home for the first time in his life. It is extremely rewarding to work through the resistance of a mother of a retarded child to accepting the extent of this problem to the point that she is willing to let him attend school

which is designed to help him with his problem. It is rewarding to see the effect of your services over a period of a few days as you watch a mother distraught with anxiety when her child is to undergo major surgery, become more relaxed and able to offer a child more support, rather than threatening the child's own stabiilty through the surgery."

Equally hard but rewarding services were reported by many Social Service staff members as they tried to ease the burden and anxiety of illness and help people reach optimal, physical, emotional and social well being.

Two situations of major importance to patient care bear special mention.

I. *Discharge and after-care planning and follow-up*

Early, rapid and complicated discharge process and planning are of deep concern to many in this Hospital. Since Social Service is often the instrument through which these plans are facilitated, the Department through the Social Service Advisory Committee and other special committees, in conjunction with administration, doctors, nurses and volunteers, is studying this total problem.

The procedure and process of discharge, itself, internally need review. Haste, lack of coordination of the many procedures and plans involved are traumatic to patients and their families and may negate the services given prior to discharge. Earlier discharge, rapid turnover, the tendency for the services to be diagnostic rather than treatment add to the problem. The preponderance of severe long-term chronic and terminal illnesses and the lack of adequate community facilities to meet these needs is frustrating but not new.

Through the Social Service Advisory Committee, a special committee has been appointed to try to remedy this lack through appropriate study, report, and recommendation for appropriate action. Through representation on this committee of hospital administration, doctors, nursing, social service and public health, we

hope jointly to do something about nursing home facilities and chronic care institutions, so that quality of care begun here is available to patients on leaving the Hospital. Grading and payment for care required and given, affiliation with hospital and public health are among the many considerations to be faced. The questions of responsibility of a large teaching hospital can hardly be denied since our goal of optimal benefit may not be reached and our best skilled care be negated.

II. *Relationship and services with Governmental Agencies in the care of our mutual clients*

In the present course of economic and sociological change more and more persons are going to receive assistance in meeting the mounting medical costs of illness and subsequent personal needs under tax supported auspices. The cultural lag in responsible attitudes toward this change is often detrimental to establishing cooperative and helpful relationships. The Committee to study the problem of legal and financial responsibilities for payment of medical care under the Accounting Department has made a real start to understand and improve the situation. It would be helpful if there could be an on-going committee expanded to include clinicians as well as administrative personnel to work with our public agency colleagues for better total service to our patients. Recognition that only 4% of the approximately 35,000 positions in public assistance programs are filled by staff with professional training should make us understand their limitations and be ready to back legislative action for adequate salaries and training programs in public assistance agencies. A unit, staffed by a top level person with knowledge in the assistance field, to coordinate all activities for clients of public agencies would be helpful. Clinicians, on whose knowledge and judgment plans for these patients are dependent, should be drawn in. The joint programs in New York City between the Welfare Department

and the New York and St. Vincent's Hospitals have real merit.

Financing Medical Care Costs

This year financial assistance was arranged for patients needing help with ancillary costs amounted to a total of $25,437.00 —the largest item of $10,728.70, as in previous years, being for taxi transportation. Of this amount $6,646.00 was reimbursed from public agencies. The next largest items were $2,628.00 for camps and $2,415.00 for prostheses; with $1,480.00 for nursing home care and $896.00 for home makers, next.

Grants from the American Cancer Society (Massachusetts Division) and the Permanent Charity Fund greatly facilitated the meeting of costs. The Lend-a-Hand Society and Boston Safe Deposit and Trust Company through donations on individual patient appeals also helped. This year we were particularly grateful to have over $5,000.00 from the Edward V. Bird Trust made available through Mr. Henry Murphy, Assistant Director, for individual patients discharged from the Massachusetts General Hospital.

Teaching Program

Four Schools of Social Work, Boston College, Boston University, Simmons and Smith placed a total of fourteen students from October through May for their practice training. We are limited in meeting the urgent requests of the schools only by lack of space, a rare commodity even for our full time staff. With the beginning of the doctoral program at Smith College in June 1963, the department is one of three selected for training and we should like to meet the request to take two students. These practitioners will be in the Agency for two years almost full time and will be persons of five or more years of experience. Such a program would bring stimulation and great strength to the Department's work. We hope that remodelling of our area in the Clinics Building will help to make space more suitable for the student program as well as for the regular staff.

From April 2 to June 5 we were privileged to have Mrs.

Joyce Aluko from the Social Service Department of the University Hospital in Ibadan, Nigeria, working in our Medical Clinic. A Graduate of the Institute of Almoners in London, she brought us new insights and deep appreciation of the social services in the newly emerging nations of Africa.

Staff Changes

Mrs. Frances Rabban who went to Israel on leave of absence resigned in September to continue her work there. Miss Lucy Weiss was granted a leave to work in England for one year where she has been at the Royal Free Hospital, London for five months and the Middlesex Hospital, London the remainder of the time. Mr. Joseph Golner, from the Alcoholic Project was granted a year's leave to take advanced third year training at Smith College. We were pleased to welcome back in September Miss Mary Kearney, former Supervisor in the Medical Services, to assist Miss Eleanor Clark as Supervisor in the Psychiatric Unit. Miss Ashraf Macchiawalla from Bombay, India, joined the staff in June for a year. Mrs. Ruth Abrams, Surgical Supervisor, who was assigned to work with Dr. Avery Wiesman on his study project on "Death and Denial" was replaced by Miss Gertrude Mackin from the Rehabilitation Service.

The Ida M. Cannon Memorial Fund at the end of the first year of its three years' solicitation reached the total of $10,644. Donations continue to come in.

We are always deeply grateful for the support of Dr. John Knowles, General Director, and Dr. Ellsworth Neumann, Administrator, and of the Social Service Advisory Committee under Dr. Edward L. Young. Without their understanding, encouragement and backing we could not have carried on.

JOSEPHINE C. BARBOUR
Chief of Social Service

Report of the Dietary Department

THE over-all rate of acceleration of the Hospital has been reflected in the scope and tempo of production and service in the Dietary Department.

ADMINISTRATION Increased budget allocations for food and tray accessories have made service patient meal patterns more comparable with those in the Baker Memorial; new heavy duty equipment (oven and a freezer) in the Main Kitchens and Bakeshop have afforded more efficient production; the Bulfinch 3 floor pantry has been redesigned to match the decor of the unit. The direct procurement of grocery items, a new responsibility for the Dietary Department this year in addition to the established procedures for the acquisition of meats and produce, contributes to the smooth operation of purchasing and distributing $815,000 worth of food supplies per year.

THERAPEUTICS In each area of patient service the increased bed capacity has been parelleled by a proportional number of modified diets, and diet instructions. The Nutrition Clinic has recorded a noticeable increase in the number of requests for food budgets. Interest in fat controlled regimens has resulted in the development of the proportioned fat diet and instruction sheets for various caloric levels.

TEACHING Twenty-five postgraduate students enrolled for the 1961-1962 program for Dietetic Internship. The course was reaccredited in March by Miss Marjorie White, Assistant Liaison Director for the American Dietetic Association. She approved recent changes which have enriched the program; and the introduction of Dietetic Interns to a Phillips House assignment of four weeks' service which will follow work in the Baker Memorial and afford an opportunity for continued therapeutic practice. One of many progress notes in her report

mentioned the improvements of the Herrick House, freshly painted from cellar to garret.

RESEARCH The Ward 4 meal census rose from 6,551 in 1961 to 8,104 in 1962.

There have been many changes on our roster this year. In March, Miss Elma Seibert returned to Illinois to care for her mother. Miss Maxine Gilson resigned in June to accept a September appointment at the Children's Hospital Medical Center, Boston. Three other graduate dietitians left to be married, and two resigned to become full time home makers.

We are pleased to report a full staff complement as of October 1962—all interested in the work on current projects and eagerly anticipating the needs of the future.

LOUISE HATCH
Director of Dietary Department and School of Dietetics

Report of the Volunteer Department

IN a world as changing as ours, it is necessary that we make every effort to maintain the active good will of the public and the earnest willingness of the volunteer. We need many more dedicated and trained hospital volunteers to carry on our precious heritage and I am deeply grateful to all the members of the Advisory Committee for their support which is so essential to spark the right action. They have been a major force in the development of our service.

At the meeting of the Board of Trustees on November 22, 1961, "On recommendation of the Advisory Committee for Volunteers it was VOTED to establish an annual award to be known as the *Jessie Harding Award for Volunteer Service,* and the Advisory Committee was authorized to appoint such subcommittees as they deem advisable to determine the recipient of and the form of this award." At the December meeting of the Advisory Committee it was decided to make the first presentation of this award at the annual Volunteer Tea on December 4, 1962.

One of the most important developments in present years has been the growing breadth and depth of a recreation service which has been shared with a great deal of enthusiasm by the staff as well as by the volunteers. As consultant to this program for Nursing Service since 1957, two reports were submitted to Administration for consideration. I wish to make particular mention at this time of the outstanding work of 71 volunteers in the following areas: the pediatric recreation service, under the direction of Miss Mary Quinlan, R.N., Assistant Director, Mrs. Sally Mueller, Recreation Supervisor, assisted by Miss Sally Cave and Miss Kathy Lanza; the rehabilitation service on White 9, under the direction of Miss Kathleen Gallagher, Coordinator, and the clinic playroom supervised by Miss Lois A. Cornell, R.N.

Last fall, in conjunction with the MGH Nurses' Alumnae Association, a Volunteer Nursing Service pilot study was car-

ried on which resulted in the establishment of the Volunteer Nurses' Alumnae Service. It is anticipated that during the coming year more nurses will enroll since it is not limited to MGH alumnae and the participants have expressed enthusiasm for the program.

A question often asked of us is: "Do you have male volunteers?" With the exception of the second world war years when we had almost an equal number of men and women volunteering, we have always had a small group of male volunteers. At the present time we have 15 assigned. I believe the number could be increased considerably—when—how—why?

Today, there are many factors which lead to leisure time for men. Earlier retirement and shorter working hours are examples. With men as well as women an important feature of volunteering for a service is the sense it gives of rebirth and controlling one's destiny. If we organized a Men's Committee giving them identity and a place to call their own, such as The Lawrence Memorial Room which the women volunteers appreciate so much, it could be the beginning of one of the largest groups in future years.

Whatever other problems still persist the fact remains that 635 volunteers worked this past year in a greater variety of areas than ever before and contributed 55,053 hours.

We record with sorrow the deaths of Mr. William Fleming, a Red Cross Arts and Skills worker, and Mrs. Fanny Sanborn, both of whom served the Hospital with untiring devotion, and skill.

It has been the Department's pleasure to welcome again a number of individuals from various parts of the world who come to observe and learn about our program.

Finally, as we indicated in our last annual report the need for trained professional leadership for Directors of Hospital Volunteers was on the increase and our hope to enter this field of education at Massachusetts General Hospital was being considered. I am pleased to report that with the encouragement of Administration, the support and readiness to experiment and innovate by members of the hospital staff, a four weeks' pilot graduate course of hospital organization and management of the Volunteer Department and its place in the total hospi-

tal structure was offered in October. Of the four students who received certificates, it is interesting to note that one student accepted a position as the first paid director of volunteers at Emerson Hospital, Concord, Massachusetts, while another has the responsibility, as a new director, to reorganize the service at Mary Fletcher Hospital, Burlington, Vermont.

By way of expressing the reactions of the director of volunteers, the educator and the student, the following excerpts from letters received are included in this report.

A letter from Mrs. Eve R. Dryssen, a member of the Association of Directors of Volunteer Service in hospitals of Metropolitan New York had this to say: "I want to congratulate you and Hospital Administration for having had the vision to see the need for training, not only persons who at present hold this position, but to look to the future and prepare and train potential directors." Another letter, from Dr. Rose Cologne, Chairman of Home-Community Relationships, Pennsylvania State University, said, "I am very much interested in the whole idea and I am delighted to know that such a course has been developed at MGH. I would appreciate receiving any reports you may prepare." Mrs. Charles M. Clark, a former student, said, "I noted in conferences with department heads that there was a recurring theme that a hospital is a living organization made up of people, not things. It was easy to absorb the theories and their practical application to Hospital Volunteer Services within the framework of this great teaching hospital where for four weeks I was made to feel part of the team."

We plan to add this educational program to our Department in view of the many enthusiastic responses, the uniqueness of the course with its educational entrance requirements—offered within the hospital, and the growing recognition of the significance of volunteer services both to the Hospital and to the individual. This course marks another MGH milestone in providing training and setting standards of performance for volunteer service which will help to achieve the Hospital's major purpose—to furnish the best possible care of the sick.

MARY RUTH WOLF
Director
Volunteer Department

Report of the Treadwell Library

IN this report of the activities of the Treadwell Library for fiscal 1962, attention will be concentrated upon book circulation and, most particularly, upon that portion of it having to do with interlibrary loans.

Reference to statistics for 1850-1950 published in the annual report for fiscal 1961, shows that no record of interlibrary loans was kept until 1900. This is understandable since there was no full-time librarian until 1897. Also, because most of the professional staff of the Hospital were, no doubt, members of the Harvard Medical Faculty as well as of the Boston Medical Library, they probably borrowed directly from these libraries. Before 1897 Treadwell Library was supervised by the Resident Physician of the Hospital and the only records of loan transactions are the "loan books" used at that time for loans from the Library's own collection. In 1900, 127 items were received from other libraries. It would be interesting to know by what means they were received and returned, but, so far, nothing has come to light concerning this facet of the service. In 1910 the number of interlibrary loans had increased to 168. For some reason none were recorded in 1920. In spite of the growth of the Treadwell's own collection and the increase in the number of current periodicals received, the number of interlibrary loans steadily increased from 390 in 1930 to 1,199 in 1940 to 3,007 in 1950. Because of interesting developments in the quantity of interlibrary loans received each year since 1950, the following table is included:

Year	*1951*	*1952*	*1953*	*1954*	*1955*	*1956*
Loans Received	2,904	2,848	3,042	2,932	**2,835**	3,001
Year	*1957*	*1958*	*1959*	*1960*	*1961*	*1962*
Loans Received	3,228	2,595	2,145	1,754	1,506	1,468

From 1950 to 1956 the number of interlibrary loans received did not vary significantly. In 1957 an increase in research activities accounted for the receipt of the largest number of loans in the history of the Library. The decrease in the number of items borrowed from other libraries during the past five years

has occurred in spite of the fact that we now have delivery service provided by the Harvard University Messenger Service five times a week rather than the three trips a week made by Hospital personnel prior to 1959. This delivery service is still too slow to meet the needs of many of our patrons. Several reasons for the decline in interlibrary loans received each year since 1957 are enumerated here.

1. The Treadwell Library has increased the number of journal titles currently received from 237 in 1957 to 530 in 1962. Reasons for the addition of new journal titles include (a) the changing loan policies of many libraries in the Boston area, (b) titles borrowed frequently should be in the Treadwell, (c) new research activities in the Hospital, and (d) the publication of new journals in old established fields of research.

2. The records of the Treadwell's collections are more accurate so that we are no longer borrowing material we own. Also, many journals received as gifts and indexed in the *Index Medicus* were never recorded before 1958.

3. The acquisition of a Copease in November 1957 and of a Xerox 914 in April 1962 has made it possible to make copies of material received on loan and, thus, multiple borrowing of the same item for one individual has been eliminated.

4. Interlibrary loans received from the National Library of Medicine are usually photocopies which may be kept by the borrower, thus eliminating multiple borrowing of these items.

5. Periodicals not in the Treadwell, but owned by departments within the Hospital are borrowed for photocopying. This reduces the time between request and receipt of the article.

It seems proper to add an explanation of the changing loan policies of various libraries in the Boston area. Harvard University Departmental Libraries and the Massachusetts Institute of Technology Library have restricted their journal collections to library use. This means that they do not loan them to other libraries for use in their reading rooms. Harvard Medical Library also has restricted certain of their journals in a like manner. This has meant that the Treadwell has added those journals most frequently asked for by Hospital personnel. It is true that all of these libraries will furnish photocopies of journal articles. Many people find the time and expense involved

in this method of obtaining desired publications impractical. Also, photographs do not reproduce well, and often these are the most important part of the publication. It is possible for the reader to go to Harvard Medical and Massachusetts Institute of Technology Libraries in the evening, but the Harvard University Departmental Libraries close at 5 P.M.

Interlibrary loan service could be improved if the libraries from which we do most of our borrowing had the personnel to receive all requests by telephone, or, if there was some quicker method of sending the publications to the Treadwell. We do verify all references, if it is at all possible with the bibliographic publications we own, before making requests and so save the lending libraries a great deal of time. The National Library of Medicine is doing an excellent job of getting photocopies to us quickly—the average time is ten days to two weeks from the time a request is mailed. We have received 92 fewer requests from the National Library of Medicine than we did last year.

Again this year our lending to other libraries has increased —from 117 in 1961 to 132 items in 1962. A New England Union List of Periodicals compiled by the Librarian of the Chas. Pfizer and Company, Inc. has been responsible for requests from smaller libraries. We, also, lend items to the larger libraries when their own copies are at the bindery.

Probably, the one thing that has wrought the greatest change in the kind of service the Treadwell Library is able to give the professional staff of the Hospital is the Xerox 914 photocopier which was installed in April 1962. This has made it possible for individuals to have copies of periodical articles in a short time and thus background reading for the preparation of papers or for use in research is facilitated. In 1961, 5,294 pages were copied on the Copease, while in 1962 this figure quadrupled to 21,177 pages. A part-time clerk spends about two and a half hours a day doing the bulk of the copying. We expect this will increase as the demand for copying increases.

Loans made totalled 4,011 in 1962, a slight increase over 1961. More duplicate journals have been available for loan and new additions to the textbook and monograph collection have circulated almost constantly. The restriction of first copies

of journals to library use is still proving to be very satisfactory for the majority of library users.

The need for shelf space in the Reading Room is an ever present problem. This was somewhat alleviated by the construction of bookcases between the windows. These cases provide space for the textbooks and monographs in the "l" classification of the Boston Medical Library schedule, the reference collection, the Index Catalogue to the Surgeon General's Office, and *Excerpta Medica.* The lack of room in the first stack level has necessitated the removal of all duplicates which have not circulated more than twice during an eight months' period. These are now in the vault so still are available for borrowing.

The Librarian attended meetings of the New England Regional Group of the Medical Library Association in Concord, New Hampshire, October 20-21, 1961, and in Bar Harbor, Maine, September 15-16, 1962; The American Documentation Institute, Boston, Massachusetts, November 6-8, 1961; dedication of the National Library of Medicine, Bethesda, Maryland, December 15, 1961; dedication of the Retina Foundation, Boston, Massachusetts, May 22, 1962; Special Libraries Association, Washington, D.C., May 27-June 1, 1962; and Medical Library Association, Chicago, Illinois, June 3-8, 1962. Miss Cole was elected Chairman of the Biological Sciences Division of Special Libraries Association and has the responsibility of planning the program for its meeting in Denver, Colorado, June 9-13, 1963. She was member of a panel on questionable medical literature during the Medical Library Association meetings and continues to serve as a member of the subcommittee on recruitment to medical librarianship.

The Boston Medical Librarians Council met only once during the year to make tentative plans for the Medical Library Association meeting to be held in Boston in 1966 and to hear a progress report on the Francis A. Countway Library.

Miss Roberta MacLaren, senior office assistant, returned to Idaho in December 1961. She was replaced successively by Carl F. Niland, Mrs. M. Gertrude Bergen, and Miss Lorraine Saltre. Part-time day clerical help has included Mrs. Walter McNaney, Miss Elinor R. Couzins, David Crossman, and Richard Burton. Night clerical help has been provided by Miss

Elizabeth D. Wallace, Miss Linda Hauver, Ronald R. Chayer, Frederick A. Phillips, Miss Ellen Cavanagh, John McCormick, and Miss Judith Mederos.

Miss H. Bernice Sweeney and Mrs. Hiram Crowell have continued to render valuable service as volunteers in the Treadwell Library for a total of one and a half days a week.

My sincere thanks to each member of the Treadwell Library Committee for his support and helpful advice throughout the year. The Committee joins me in expressing our appreciation for all gifts received by the Library. An alphabetical list of donors is kept on file with a copy of this report.

U. Holzer, Inc., bookbinders since 1870, closed its doors in September 1962 because of the ill health of the owners and their inability to sell the business. It was with much regret that this news was received, for the Treadwell Library binding had always been done by the Holzers. Even before Mrs. Myers was appointed Librarian in 1897, the Resident Physician (later Director) who supervised the Library would go to see Mr. Holzer and tell him that some of the journals should be bound. Either Mr. Holzer or one of his sons would come to the Treadwell and gather the journals. After being bound, the journals were returned to the shelves. Their convenient weekly delivery service made it possible to spread the work connected with the binding of journals evenly over the whole year. The closing of the Holzer bindery marks the end of a long, happy, and understanding association between bookbinder and librarian.

The statistics for the year follow:

	1961	*1962*
Number of periodical volumes	13,803	14,415
Number of other volumes	9,967	10,246
Number of pamphlets (approximate)	2,250	2,000
Number of photocopies received from National Library of Medicine	300	208
Number of pages photocopied in Treadwell Library	5,294	21,177
Number of items given to other libararies or individuals (approximate)	844	2,908
Number of periodicals currently received	517*	530†
Number of volumes loaned	3,779	4,011
Number of unbound periodicals loaned	1,389	1,411

Total number of loans	5,168	5,422
Number of items borrowed from other libraries	1,506	1,468
Number of items loaned to other libraries	117	132
Number of persons using the library during the day	27,369	27,509
Number of persons using the library during the evening	5,630	5,641
Total number using the library	32,999	33,150

*Includes 353 purchased journals, 39 annuals and 124 gifts.
†Includes 365 purchased journals, 41 annuals and 124 gifts.

GENEVIEVE COLE
Librarian

Dalton Scholarships

THE income of this fund, amounting to $1,000 annually, is devoted to investigation in the science of medicine. The rules of the Trustees applicable to it are as follows:

ARTICLE 1. Candidates shall be nominated to the Board of Trustees by the General Executive Committee with their recommendations. They shall be either interns of the General Hospital or graduates of a regular American medical college.

ARTICLE 2. The nature of the work in medical investigation proposed to be prosecuted by each candidate shall be designated by the candidate.

ARTICLE 3. The dates of beginning and ending scholarships, the amounts of the stipends and the conditions of work shall in each case be recommended by the General Executive Committee to the Board of Trustees.

ARTICLE 4. The results of work of scholars shall appertain to the Hospital, and when made public the name of the scholar shall accompany the publication, but no publication shall be made unless approved by the General Executive Committee.

ARTICLE 5. When the income is insufficient, appointments for the year may be omitted.

ARTICLE 6. Any income not used shall be cumulative and not added to the principal.

ARTICLE 7. Scholars shall be eligible for renomination and reappointment.

Further information may be had by applying to the General Director of the Massachusetts General Hospital.

Warren Triennial Prize

THE Warren Triennial Prize was founded by the late Dr. J. Mason Warren in memory of his father, and his will provides that the accumulated interest of the fund shall be awarded every three years to the author of the best dissertation considered worthy of a premium on some subject in Physiology, Surgery, or Pathological Anatomy, the arbitrators being the General Executive Committee of the Massachusetts General Hospital.

In 1965 the prize will be awarded in the form of a lectureship at the Massachusetts General Hospital. The Warren Prize Lecturer, selected for outstanding work in medical science, will be nominated to the Trustees by the General Executive Committee.

The submission of special theses or essays will no longer be required for this competitive prize.

JOHN H. KNOWLES, M.D.
General Director

Statistical and Comparative Tables

Statistical and Comparative Tables

TOTAL EXPENSES

	Service	Out-Patient Department	Private	Semi-Private	Miscellaneous	Total
1953.....	3,064,151.	887,828.	907,984.	2,084,635.	2,788,945.	9,733,543.
1954.....	3,168,890.	1,012,659.	1,006,092.	2,407,785.	3,229,039.	10,824,465.
1955.....	3,575,242.	1,008,501.	1,042,335.	2,512,596.	3,473,377.	11,612,051.
1956.....	4,261,912.	1,158,356.	1,203,094.	2,770,015.	3,690,189.	13,083,566.
1957.....	4,476,986.	1,334,795.	1,304,260.	2,934,279.	4,518,960.	14,569,280.
1958.....	5,375,433.	1,483,044.	1,523,384.	3,406,112.	2,378,576.*	14,166,549.
1959.....	5,575,972.	1,605,612.	1,666,735.	3,714,185.	2,794,412.*	15,356,916.
1960.....	6,052,617.	1,739,500.	1,770,265.	4,155,916.	3,501,466.*	17,219,764.
1961.....	5,968,122.	1,701,771.	2,004,181.	4,301,078.	4,247,635.*	18,222,787.
1962.....	7,076,629.	1,889,216.	2,184,933.	4,822,094.	4,781,331.*	20,754,203.

TOTAL NET EARNINGS

1953.....	1,922,424.	599,384.	1,165,987.	2,476,787.	1,410,630.	7,575,212.
1954.....	1,958,527.	648,324.	1,177,469.	2,638,040.	1,512,106.	7,934,466.
1955.....	2,357,868.	645,829.	1,235,431.	2,718,253.	1,700,183.	8,657,564.
1956.....	2,900,094.	659,737.	1,434,467.	2,966,123.	1,762,277.	9,722,698.
1957.....	2,927,985.	792,358.	1,523,634.	3,423,917.	2,155,307.	10,823,201.
1958.....	3,570,656.	864,742.	1,790,032.	3,897,908.	2,401,304.	12,524,642.
1959.....	3,837,852.	856,443.	1,976,648.	4,508,186.	2,660,813.	13,839,942.
1960.....	4,023,076.	954,376.	2,312,042.	5,012,325.	2,971,008.	15,272,827.
1961.....	4,660,384.	1,032,484.	2,725,019.	5,204,960.	3,385,425.	17,008,272.
1962.....	5,627,922.	1,129,728.	2,870,807.	5,677,968.	3,861,606.	19,168,031.

* Research Funds excluded.

NOTE: Due to the 13 period fiscal year, the 1960 year contains one extra week. Therefore the 1960 figures and statistics are based upon a 371 day year instead of 364 days.

COMBINED CLINICS

	New Cases	Total Number of Visits	Daily Average	Total Number Prescriptions Filled
1953.....	14,955	176,587	585	114,859
1954.....	15,226	181,774	602—	121,424
1955.....	14,577	187,747	622—	126,067
1956.....	13,079	186,517	618—	127,885
1957.....	13,173	211,205*	699+	129,179
1958.....	12,283	216,216*	716—	129,622
1959.....	12,491	225,256*	746	133,103
1960.....	12,442	225,456*	732	139,472
1961.....	11,996	206,395*	683	136,676
1962.....	12,336	204,583*	674	151,915

	Cost of Combined O. P. D.	Aver. Cost per Visit in Comb. Depts.	Total Net Receipts	Aver. Net Receipts	M. G. H. Share of Cost	MGH Share of Net Receipts
1953....	943,852	5.34	645,901	3.66	779,549	489,568
1954....	1,069,175	5.88	671,304	3.69	888,492	517,888
1955....	1,088,976	5.80	685,386	3.65	889,033	527,948
1956....	1,243,689	6.67	673,815	3.61	1,022,144	525,917
1957....	1,420,258	6.72	806,433	3.82	1,191,370	651,397
1958....	1,565,229	7.24	868,250	4.02	1,327,536	710,984
1959....	1,704,172	7.57	917,333	4.07	1,454,023	707,470
1960....	1,868,276	8.29	1,042,143	4.62	1,592,537	809,164
1961....	1,836,817	8.90	1,115,399	5.40	1,543,860	878,732
1962....	2,108,132	10.30	1,265,340	6.18	1,753,524	975,063

EMERGENCY WARD

	No. of Patients Treated	Routine Cost	Ancillary Cost	Total Cost	Total Net Receipts
1962....	42,792	358,931	153,075	512,006	261,003

*Includes Staff and Other — See page 137.

NURSING DEPARTMENT

	1953	1954	1955	1956	1957	1958	1959	1960	1961	1962
Average No. of Graduates on General Hospital Staff	203	220	187	194	190	254	249	260	253	257
Average No. of Graduates on School of Nursing Staff			42	41	44	46	48	49	48	50
Average No. of Graduates on Baker Memorial Staff	74	80	60	58	60	78	75	70	73	81
Average No. of Graduates on Phillips House Staff	54	55	55	58	62	76	83	84	85	86
Average No. Accepted Pupils	286	282	286	279	267	296	314	237	348	339
Average No. Preclinical Students†	83	71	72	68	74	77	66	129	124	125
Average Total	700	708	625	698	697	827	834	829	807	938
Total No. Preclinical Students† Admitted	133	143	139	125	186	135	134	148	134	147
Preclinical Students† Dropped and Resigned	20	28	21	12	14	6	15	16	39	28
Accepted Pupils Dropped and Resigned	14	6	14	16	18	20	21	31	12	21
Total Dropped and Resigned	34	34	35	28	32	26	36	47	51	49
Average No. of Graduates on General Hospital Staff—*Part time	8	11	11	20	17	18	12	12	13	18
Average No. of Graduates on Baker Memorial Staff—*Part time	5	12	8	10	5	5	7	13	13	14
Average No. of Graduates on Phillips House Staff—*Part time	4	6	9	9	11	5	6	6	8	17
Total *Part time graduates	17	29	28	39	33	28	25	31	34	49

*Part time nurses expressed in equivalent of full time.
†Now called Freshman year.

MASSACHUSETTS GENERAL HOSPITAL

Combined In-Patient Care Income and Cost Per Day

	1962	*1961*
Total Number of In-Patient Days	314,906	303,332
Total Income	$19,168,030	$16,874,779
Deduct Non In-Patient Income		
Other Income	2,848,096	2,774,806
Out Patient Department	814,134	740,571
Emergency Ward	262,199	217,874
Private Ambulatory	560,601	376,674
	4,485,030	4,109,925
Total In-Patient Income	14,683,000	12,764,854
Income Per In-Patient Day	$46.63	$42.08
Total Expenses	25,505,635	22,410,067
Deduct Non In-Patient Expenses		
Non Operating and Research	6,443,903	5,126,919
Non Patient	2,640,169	2,258,431
Out Patient Department	1,693,295	1,543,860
Emergency Ward	512,006	673,400
Private Ambulatory	401,444	356,928
	11,690,817	9,959,538
Total In-Patient Expense	13,814,818	12,450,529
Cost Per In-Patient Day	$43.87	$41.05

MASSACHUSETTS GENERAL HOSPITAL

Income and Expense Statement

Summary

Operating Income	*Total 1962*	*Total 1961*
Earnings from Services to Patients		
Private Patients	$ 2,970,989	$ 2,608,833
Semi-Private Patients	6,160,870	5,774,679
Ward Patients	7,870,822	6,482,541
Out-Patient Department	1,201,343	1,109,357
Private Ambulatory	559,601	442,512
Emergency Ward	392,590	395,644
Other	581,231	345,976
Total Earnings from Services to Patients	19,737,446	17,159,542
Less: Deductions from Earnings		
Charity Allowance	1,628,457	1,625,064
Other Rebates and Losses	1,730,947	1,066,441
Net Provisions for Doubtful Accounts	58,108	368,064
Total Deductions from Earnings	3,417,512	3,059,569
Net Earnings from Service to Patients	16,319,934	14,099,973
Other Income	2,848,093	2,774,806
Total Income	19,168,027	16,874,779
Operating Expenses		
Professional Care of Patients	14,431,650	12,672,419
Dietary Expenses	1,641,668	1,560,766
Housekeeping	838,211	736,417
Laundry and Linen	651,869	465,862
Plant Operation and Maintenance	1,637,625	1,479,359
Other Non-Patient Expenses	548,703	311,210
Total Operating Expenses	19,749,726	17,226,033
Net Operating Deficit	581,699	351,254
Add: Non-Operating and Research Expenses	7,448,377	6,114,468
Net Deficit	8,030,076	6,465,722
Available from Treasurer for Expenses at Hospital	7,982,058	6,622,120
Final Deficit—Withdrawn from General Fund Principal	48,018	(156,398)
Add: Blue Cross Adjustment Nonrecurring		($124,285)
Final Surplus		280,683

RADIOLOGICAL DEPARTMENT

General Hospital	*1962*	*1961*
House Patients Examined	22,605	20,412
Out-Patient Department patients examined	12,222	12,224
Emergency Ward patients examined	13,859	13,154
Staff patients examined	2,669	2,700
Total number patients examined	51,355	48,490
X-Ray treatments given (Inc. Baker & Phillips House)	**20,808	*19,828
Number of examinations	71,261	67,811
Total number of examinations and treatments	92,069	87,639
Phillips House		
House patients examined	5,610	4,583
Private patients examined	—	10
Total number patients examined	5,610	4,593
Number of examinations	8,255	7,287
Total number of examinations	8,255	7,287
Baker Memorial		
House patients examined	16,026	14,413
Private patients examined	11,713	11,754
Total number patients examined	27,739	26,167
Number of examinations	39,268	36,968
Total number of examinations	39,268	36,968
Entire Hospital (Combined Statistics)		
Total number patients examined	84,704	79,250
Total number patients treated	1,247	1,459
Total number patients examined and treated	85,951	80,709
Total number examinations	118,784	112,066
Total number treatments and observations	24,407	19,666
Total number of radium & isotopes treatments	134	162
Total number examinations, treatments and observations, radium & isotopes	143,325	131,894

* Includes 162 Radium & Isotope cases
**Includes 134 Radium & Isotope cases

Radium Therapy

Treatments given:	*1962*	*1961*
General Hospital (including Eye and Ear Infirmary)	62	97
Phillips House	12	9
Baker Memorial	60	56
Total number treatments given	134	162

PHYSICAL MEDICINE DEPARTMENT

Physical Therapy

Treatments given:	*1962*	*1961*
Out-Patient Department	1,436	1,337
General Hospital (including Eye and Ear Infirmary)	11,543	9,782
Phillips House	1,810	1,996
Baker Memorial	5,479	4,795
Private ambulatory patients	7,493	6,966
Total treatments given	27,761	24,876

	New Patients		Subsequent Visits		Staff & Other	
	1962	*1961*	*1962*	*1961*	*1962*	*1961*
Admitting Physician	737	729	1,728	1,867	3	8
Medicine	455	468	21,729	22,340	75	78
Alcohol	71	95	1,472	1,500	460	37
Allergy	2	1	5,048	7,170	700	777
Anemia	—	—	—	—	—	—
Hematology	2	3	410	321	2	8
Arthritis	11	1	1,096	1,004	32	21
Diabetes	1	6	2,841	2,910	110	47
Gastro-Intestinal	3	4	1,110	1,187	2	6
Cardiac	14	10	959	996	4	8
Hypertension	1	1	885	631	21	26
Nutrition	—	—	245	262	298	325
Ovarian Dysfunction	—	1	—	17	—	3
Podiatry	1	3	1,406	1,473	221	311
Pulmonary	6	3	539	503	14	12
Rheumatic Fever	2	1	514	529	—	2
Thyroid	—	—	2,040	2,033	1,248	1,187
Dermatology	674	691	6,953	7,592	1,851	1,400
Syphilis	63	45	1,079	2,020	1,061	296
Neurology	95	87	5,816	6,310	427	341
Language	18	29	5,937	6,131	4	19
Psychiatry	405	377	4,651	3,907	1,642	1,420
Child Psychiatry	10	8	1,859	1,512	4	—
Children's Medicine	748	708	3,872	4,848	2,763	583
Adolescent Endocrine	31	21	900	874	26	11
Surgery	298	281	12,133	12,148	800	611
Amputation Clinic	22	25	178	174	—	1
Amputation Rounds	44	20	164	145	—	1
Fracture	11	4	4,025	3,634	133	135
Hand	15	14	293	209	8	19
Plastic Surgery	5	8	371	162	3	1
Rectal Surgery	—	—	92	137	7	14
Vascular Surgery	2	2	442	367	10	15
Gynecology	151	140	3,304	3,223	329	286
Orthopedic Surgery	347	275	6,324	6,303	453	462
Infantile	—	—	—	—	—	—
Scoliosis	—	—	15	8	—	—
Urology	124	124	4,753	5,432	237	177
Stone	—	—	—	—	—	—
Dentistry	447	366	2,978	3,298	1,153	1,066
Tumor	141	141	7,358	7,177	58	67
Rehabilitation	—	3	470	310		1
General Hospital Clinics	4,957	4,695	115,989	120,664	14,159	9,782
General Hospital Totals	4,957	4,695	115,989	120,664	14,159	9,782
Ear, Nose and Throat	2,764	2,586	18,229	20,281	877	1,072
Eye	4,615	4,715	41,297	40,816	1,696	1,784
Eye & Ear Infirmary Totals	7,379	7,301	59,526	61,097	2,573	2,856
Combined Out-Patient Department Totals	12,336	11,996	175,515	181,761	16,732	12,638

	1962	*1961*
Total Attendance	204,583	206,395

	Service		Semi-Private		Private	
	1962	*1961*	*1962*	*1961*	*1962*	*1961*
Average number of patients per day	408	381	328	334	129	118
Number of beds available	465	459	330	340	170	159
Percentage of beds occupied	78%	83%	99%	98.4%	76%	74.1%
Autopsies	66.2%	68.5%	70.8%	69.1%	69.9%	73%
Gross per capita earnings, excluding special nurses	37.92	33.60	47.52	42.75	61.09	63.52
Net per capita earnings on special fees excluding board and special nurses	22.70	18.07	18.18	17.13	20.91	20.19
Per capita cost of raw food, patients only	.94	.91	1.25	1.19	1.92	1.89
Average professional fee per patient			139.21	158.11		
Average Hospital charge per patient	578.70	567.17	583.49	584.60	693.27	729.91
Average Hospital charge per patient, including professional fees but excluding special nurses			686.46	698.76		

MASSACHUSETTS GENERAL HOSPITAL

STATEMENT OF STOCK ON HAND SEPTEMBER 30, 1962 AND OCTOBER 1, 1961

	Sept. 30 1962	*Oct. 1 1961*
General Hospital Apothecary Out-Patient Department Apothecary	$172,036.70	$227,461.58
General Hospital Upper Store	185,461.56	247,091.07
General Hospital Lower Store	16,916.34	18,326.31
General Hospital Maintenance	69,672.15	75,444.11
General Hospital Postage	1,269.24	2,243.49
General Hospital Print Shop	3,195.99	4,993.63
Other	297,725.27	200,705.95
Total Stock on Hand	$746,277.25	$776,266.14

	SERVICE						SEMI-PRIVATE						PRIVATE					
					Deaths						Deaths						Deaths	
	No. Patients Admitted	*Patient Days*	*Average Stay in Hospital*	*Number of Operations*	*Total Number*	*% of Admissions*	*No. Patients Admitted*	*Patient Days*	*Average Stay in Hospital*	*Number of Operations*	*Total Number*	*% of Admissions*	*No. Patients Admitted*	*Patient Days*	*Average Stay in Hospital*	*Number of Operations*	*Total Number*	*% of Admissions*
1953	10,698	127,337	12—	5,639	597	5.06	7,919	93,496	11+	6,233	206	2.60	2,696	30,121	11—	1,414	86	3.19
1954	10,521	127,496	12+	7,052	585	5.56	8,220	98,461	11+	4,765	194	2.36	2,616	30,736	11+	1,312	76	2.90
1955	11,586	141,585	12+	6,868	680	5.86	8,390	96,211	11+	4,588	243	2.89	2,607	32,266	11+	1,153	74	2.74
1956	11,083	141,231	13—	7,225	671	6.04	8,651	102,484	12—	4,887	221	2.55	2,940	36,938	12+	1,251	80	2.75
1957	11,734	133,521	12—	7,745	778	6.63	9,086	102,738	11+	4,954	268	2.94	2,878	36,909	12+	1,386	75	2.96
1958	11,890	141,371	12—	6,991	866	7.28	9,296	106,450	11+	4,851	279	3.00	3,053	36,396	12+	1,192	93	3.05
1959	11,954	142,097	12—	7,098	784	6.56	10,105	112,351	10+	4,215	316	3.13	3,275	41,784	12—	1,366	93	2.84
1960	11,547	134,047	11+	7,015	843	7.30	10,546	119,167	11+	5,359	354	3.36	3,517	40,924	12—	1,487	100	2.84
1961	11,607	138,687	12—	7,613	784	6.75	10,689	116,932	11+	5,459	369	3.45	3,803	42,429	11+	1,467	115	3.02
*1962	13,598	148,424	11—	7,667	934	6.87	9,714	119,486	12+	6,075	384	3.95	4,274	46,996	11—	1,556	122	2.85

Total number of patients admitted to General Hospital from the year 1821 — 598,468
" " " " " " Phillips House " " " 1917 — 109,971
" " " " " " Baker Memorial " " " 1930 — 229,543

937,982

*Private Pediatric Patients Included in Service Category 1962 — 1,521 Admissions — 10,469 Patient Days.

Report of the Treasurer

In accordance with Article 5 of the By-Laws, the Annual Report of the Treasurer for the fiscal year ending September 30, 1962, approved by Patterson, Teele & Dennis, Auditors, is respectfully submitted.

THE MASSACHUSETTS GENERAL HOSPITAL
CONDENSED YEAR-END BALANCE SHEET

	Sept. 30, 1962	*Sept. 30, 1961*
ASSETS		
CASH	$ 2,693,303.99	$ 2,525,052.47
INVESTMENTS		
Bonds	18,984,583.02	18,007,796.24
Stocks	19,034,411.47	14,933,512.78
Notes and Commercial Paper	1,554,412.62	3,688,034.59
Real Estate	170,820.86	207,527.34
ACCOUNTS RECEIVABLE — PATIENTS AND OTHERS (Less Allowance for Doubtful Accounts)	6,091,260.90	5,250,040.12
NOTES RECEIVABLE	716,420.34	712,730.04
INVENTORY OF SUPPLIES — AT ESTIMATED COST	807,315.12	839,747.02
PREPAID ITEMS	63,200.00	53,696.75
INTEREST IN UNSETTLED ESTATES, ETC.	11.00	11.00
PLANT — Less Depreciation	22,615,430.52	19,548,499.77
CONSTRUCTION IN PROGRESS	1,265,870.29	2,074,379.24
	$73,997,040.13	$67,841,027.36
LIABILITIES		
ACCOUNTS PAYABLE AND ACCRUALS	$ 945,288.01	$ 846,041.37
PENSION RESERVES	463,603.57	394,588.40
W.C.A. AND REPAIR RESERVES	249,872.52	161,164.47
GENERAL FUND		
Treasurer's Account	424,477.42	63,505.34
Director's Account	5,497,698.36	4,830,298.85
GENERAL HOSPITAL ENDOWMENT FUNDS		
Unrestricted as to Income	5,179,003.82	5,138,052.00
Restricted as to Income	17,851,464.78	17,644,137.94
McLEAN HOSPITAL FUNDS		
General Fund		
Treasurer's Account	(778,506.88)	(649,328.70)
Director's Account	687,815.47	656,628.91
Endowment Funds	1,384,873.87	1,177,074.16
BUILDING FUNDS	2,501,782.71	3,535,133.74
FIDUCIARY FUNDS	543,726.53	524,124.42
FUNDS INVESTED IN PLANT	22,615,430.52	19,548,499.77
TEMPORARY FUNDS		
General Hospital	5,858,738.39	3,802,931.66
McLean Hospital	358,659.30	301,054.20
Fiduciary	10,661.40	11,442.08
GENERAL INVESTMENT PROFIT AND LOSS ACCOUNT	10,202,450.34	9,855,678.75
	$73,997,040.13	$67,841,027.36

THE MASSACHUSETTS GENERAL HOSPITAL

GENERAL HOSPITAL

CONDENSED INCOME STATEMENT

(for fiscal year ending Sept. 30)

	1961-62	*1960-61*
TREASURER'S RECEIPTS		
GIFTS		
Unrestricted	$ 196,054.00	$ 240,941.00
Annual Free Beds	3,638.00	3,150.00
Restricted	7,346,784.02	5,283,180.57
	$ 7,546,476.02*	$5,527,271.57*
INCOME FROM INVESTMENTS		
Unrestricted	$ 375,873.29	$ 340,631.33
Restricted	1,214,432.44	1,113,590.65
	$ 1,590,305.73	$1,454,221.98
OTHER INCOME		
From Trusts and Agents	$ 10,501.66	$ 11,122.13
Contributions for Connecting Building	10,413.00	10,413.00
Huntington Memorial Hospital	23,487.92	22,385.35
Miscellaneous	1,070,238.29	910,548.85
	$ 1,114,640.87	$ 954,466.33
TOTAL	$10,251,422.62	$7,935,959.88
RESTRICTED INCOME NOT APPLIED	2,055,806.73	1,135,338.94
	$ 8,195,615.89	$6,800,620.94
PAYMENTS FROM INCOME		
Added to Principal	$ 73,074.23	$ 63,084.31
Treasurer's Payments From Funds and Miscellaneous	140,483.21	115,416.78
	$ 213,557.44	$ 178,501.09
TREASURER'S BALANCE AVAILABLE FOR EXPENSES AT HOSPITAL	$ 7,982,058.45	$6,622,119.85
HOSPITAL EXCESS OF EXPENSES	8,030,076.05	6,465,721.96
DEFICIT	$ 48,017.60	$ (156,397.89)
BLUE CROSS ADJUSTMENT APPLICABLE TO PRIOR YEARS	—0—	124,285.40
WITHDRAWN FROM GENERAL FUND PRINCIPAL	$ 48,017.60	$ (280,683.29)

* Includes Community Fund Allocation of $175,674.00 for 1961-62, and $215,481.00 for 1960-61.

THE MASSACHUSETTS GENERAL HOSPITAL
McLEAN HOSPITAL
CONDENSED INCOME STATEMENT
(for fiscal year ending Sept. 30)

	1961-62	*1960-61*
TREASURER'S RECEIPTS		
GIFTS		
Unrestricted	$ —0—	$ 75.00
Restricted	523,978.45	479,857.00
	$523,978.45	$479,932.00
INCOME FROM INVESTMENTS		
Unrestricted	$ 12,599.33	$ 12,706.95
Restricted	46,878.97	45,016.63
	$ 59,478.30	$ 57,723.58
OTHER INCOME		
From Trusts and Agents	$ 5,415.00	$ 5,325.00
Miscellaneous	26,526.58	21,241.08
	$ 31,941.58	$ 26,566.08
TOTAL	$615,398.33	$564,221.66
RESTRICTED INCOME NOT APPLIED	57,605.10	(91,998.13)
	$557,793.23	$656,219.79
PAYMENTS FROM INCOME		
Added to Principal	$ 326.73	$103,804.03
Expenses Paid from Funds and Miscellaneous	8,316.49	3,472.87
	$ 8,643.22	$107,276.90
TREASURER'S NET RECEIPTS	$549,150.01	$548,942.89
HOSPITAL EXCESS OF EXPENSES	632,568.30	634,752.51
DEFICIT	$ 83,418.29	$ 85,809.62
PROVISION FOR IMPROVEMENT AND ALTERATION IN EXCESS OF EXPENDITURES	53,085.59	$ —0—
WITHDRAWN FROM FUNDS	$136,503.88	$ 85,809.62

GENERAL FUND

	Income	Principal
FOR ANY HOSPITAL PURPOSE		$424,477.42

GENERAL HOSPITAL FUNDS

	Income	Principal
FLORENCE M. AGOOS MEMORIAL FUND For developing and furthering medical research and scientific medical knowledge through research and teaching. Bequest of Solomon Agoos		$10,000.00
PHILIP R. AND ANNE L. ALLEN ENDOWMENT FUND Income for any Hospital Purpose.		80,283.00
ANESTHESIA FUND Income to be used to supply laboratory facilities or such other advantages as the Trustees may determine for the Chief of the Anesthesia Department.		43,861.16
MARTHA B. ANGELL FUND For medical and surgical experimentation on animals to the end of saving human lives.		34,040.82
ARCHIVES, PICTURES AND HISTORICAL RELICS FUND "The income of which shall be used for the continuous and better care of hospital archives, pictures and historical relics pertaining to both the General Hospital and the McLean Hospital."	$ 849.32	8,147.25
JOHN ASHTON FUND For diseased and wounded soldiers.		30,522.18
THE JOSEPH C. AUB FUND Income to be spent for Cancer Investigation.		22,450.66
BAKER MEMORIAL FUND For the Baker Memorial. Sundry Bequests.		104,108.78
BAKER MEMORIAL ASSISTANCE FUND Income to help pay the hospital expenses of such individual patients of small means as are believed to have incurred hospital expenses greater than they anticipated at the time of entering the Hospital,—but not limited to such cases. Disbursements to be made on recommendation of staff member in charge of patient approved by Committee designated in will. Income may also be used to purchase apparatus suitable for handling fractures and operations. Bequest of Miss Carrie M. Jameson $5,601.20 Sundry Gifts 320.00	906.48	7,921.20

GENERAL HOSPITAL FUNDS (Continued)

	Income	Principal
LILLIAN DOBIE BALBONI MEMORIAL FUND Income for a Free Bed or for any other purpose the Trustees of the Hospital may think best. Sundry Gifts.	$8,732.16	$38,202.37
ARTHUR W. BLAKE FUND ..... Income for the study and cure of nervous diseases.	–708.61	25,000.00
GEORGE WASHINGTON WALES BREWSTER MEMORIAL FUND ..... Income for any Hospital purpose. Bequest of Mrs. George W. W. Brewster $5,000.00 Sundry Gifts 1,289.02		6,289.02
ANNIE BOLTON MATTHEWS BRYANT FUND ..... Income for the benefit of people with moderate means for the establishment of free beds if the management believes it advisable, otherwise for general use.		72,093.70
ARTHUR TRACY CABOT FUND ..... Income for support of laboratories.		20,000.00
RICHARD C. CABOT FUND ..... For educational purposes in connection with the work of the Social Service Department.	159.02	50,155.02
RICHARD C. CABOT MEDICAL SOCIAL LIBRARY FUND ..... Income "to be used for the purchase of books for the Social Service Library under the direction of Chief of Social Service." Gift of American Association of Hospital Social Workers.	149.74	1,010.00
SAMUEL CABOT FUND FOR PATHOLOGICAL INVESTIGATION ..... Income for salary of Surgical Pathologist. Gift of Samuel and Dr. Arthur T. Cabot.		10,000.00
CANCER RESEARCH ENDOWMENT FUND For Research in Cancer.	22,019.66	343,166.64
THE IDA M. CANNON MEMORIAL FUND Income to be spent for Social Service in Medical care under the direction of the Advisory Committee to the Social Service Department.	229.92	10,502.76

GENERAL HOSPITAL FUNDS (Continued)

	Income	Principal
MASSACHUSETTS GENERAL HOSPITAL CHAPEL FUND ..... Gifts of "Friends of the Hospital".	4,020.01	6,913.48
MASSACHUSETTS GENERAL HOSPITAL ENDOWMENT FUND FOR THE STUDY OF CHRONIC DISEASES ..... Income for research work under the direction of Dr. Walter Bauer. Principal may be expended with the approval of Dr. Bauer up to $50,000.		791,317.02
CLINICAL LABORATORY FUND ..... Income for Clinical Laboratory. Bequest of Mrs. Grace M. Kuhn.		10,000.00
CONNECTING BUILDING FUND ..... Income for Connecting Building.		$10,000.00
CONVALESCENT HOSPITAL FUND ..... For the Convalescent Hospital	–19,445.62	297,274.93
WILLIAM C. AND JESSIE B. COX SCHOLARSHIP FUND ..... Income for scholarships and other aid for student nurses in the M.G.H. School of Nursing.		70,112.41
LORETTA JOY CUMMINS FUND ..... For general purposes of the Hospital, but preferably for the Skin Department.	300.71	35,143.38
THE CUSHMAN FUND ..... Income for the Social Service of the Hospital. Gift of Mrs. Charles F. Cushman.	483.88	5,000.00
MIRIAM F. AND ADELINE F. CUTTER FUND "To be used for women in illness especially the aged who have been accustomed to gentle care."		10,000.00
CAROLINE ENGSTROM DAHL FUND ..... Income to be used for maintenance of the Research Building; principal expendable within the intent of the bequest at the discretion of the Trustees. Bequest of Mr. Richard Engstrom.		101,170.00
JOHN CALL DALTON AND EDWARD BARRY DALTON FUND ..... Income for investigation in the science of medicine.	5,882.00	35,500.00

GENERAL HOSPITAL FUNDS (Continued)

	Income	Principal
CHESTER H. DAVIS FUND	43.94	20,000.00
Income for "the care, maintenance and medical treatment of crippled and deformed white children between the ages of six months and ten years."		
DR. WALTER J. DODD MEMORIAL FUND	509.94	32,047.91
Income for X-Ray investigation.		
THE BESSIE ROCHESTER EDWARDS MEMORIAL FUND		66,164.36
Income for the care and treatment of men who have served or are serving in the armed forces of the United States of America.		
Gifts of		
Trustees of The Bessie Rochester Edwards Memorial Foundation $55,914.20		
Disabled Ex-Servicemen's Exchange, Inc. 10,250.16		
EDWARDS MEMORIAL FUND		406,547.56
Until such time as the Trustees of the Hospital shall direct otherwise, the income on $100,000 to be used in such manner as said Trustees may deem proper for medical or surgical research.		
Bequest of Miss Grace M. Edwards 391,447.56		
Sundry Bequests 100.00		
JOHN W. ELLIOT FUND	$252.63	20,114.22
Income for investigation in the science of medicine, preferably in the Surgical Department. The income may be used for other purposes in case there is no further demand in this direction.		
ISABELLA H. ELLISON FUND		89,753.16
Income for the general purposes of the Baker Memorial.		
SARAH POTTER EVARTS FUND	365.71	1,398.42
For psychiatric social work.		
Gifts of Mrs. Prescott Evarts and Dr. Helen W. Evarts.		
FRANCES FAY AND ARTHUR KELSEY FAY MEMORIAL FUND	2,144.78	25,000.00
Income primarily for care and treatment of persons suffering from or threatened with chronic epilepsy in cases requiring special study.		
Gift and bequest of James H. Fay.		

GENERAL HOSPITAL FUNDS (Continued)

	Income	Principal
EDITH S. AND FRANCES B. FISHER MEMORIAL FUND To be used both as to principal and any income to purchase therapeutic appliances for needy crippled or deformed patients as directed by the social service department.	3,749.48	80,000.00
FREE BED FUNDS Income for Free Beds. Sundry Gifts and Bequests.	2,616.07	4,444,070.43
GENERAL SURGERY FUND Income to be used for general surgery purposes under the direction of the Chief of General Surgery. Principal expendable in need.	2,370.30	50,971.32
MRS. JOHN CHIPMAN GRAY FUND For the purchase of books in foreign languages for the use of patients.	981.22	1,000.00
ALLAN W. HAMILTON FUND For medical services in the Outpatient Department.		2,027.03
ABIGAIL R. HAZELTINE FUND Income unrestricted until the establishment of a cancer or incurable ward, then to the maintenance of same; principal may be applied toward a building for this purpose. Bequest of Miss Harriet S. Hazeltine.		10,000.00
THE WILLIAM HILTON FUND "To be invested as a separate fund, and called 'The William Hilton Fund,' the income thereof to be applied for the support of free beds or otherwise, as the trustees shall from time to time deem best, for the poor suffering from disease or injuries "		50,053.58
CHARLES W. HOLTZER FUND Income for general research work.		41,666.67
INCOME UNRESTRICTED FUNDS Income for any Hospital purpose. Sundry Gifts and Bequests.		4,549,493.07
JAMES MARSH JACKSON MEMORIAL FUND Income for occupational work or for general purposes. Gift through Trustees of the James Marsh Jackson Memorial Fund.		25,797.20

GENERAL HOSPITAL FUNDS (Continued)

	Income	Principal
THE CHESTER MORSE JONES HOUSE STAFF EDUCATIONAL FUND ..... Income only to be spent to increase the educational opportunities for the House Staff through contact with eminent men in the field of medicine either at the Hospital or away.	4,327.25	40,965.00
DANIEL FISKE JONES MEMORIAL FUND .... Income to extend and improve the education of surgical residents and interns.	466.45	18,713.99
CATHERINE PEIRCE KELLEY FUND ..... Income for support and maintenance of a Free Bed for Women . . . aiding those who are most in need of aid. Bequest of Miss Grace Fletcher Kelley.		44,000.00
THE JOSEPH P. KENNEDY, JR. LABORATORIES FUND ..... To bring to the Laboratories the best possible Research men with an interest in mental retardation.	8,347.91	500,000.00
MARGERY AMORY KETCHUM MEMORIAL FUND ..... Income only to be spent on Cancer Research u/d of Dr. Joseph C. Aub so long as he is actively connected with the Hospital; thereafter for cancer research at the discretion of the Trustees. Sundry Gifts.	845.39	24,754.14
EMMA GILDERSLEEVE LANE FUND ..... For cancer research, "preferring but not requiring that this legacy be kept as capital and only its income used for research in cancer."	1,136.62	20,000.00
THE ISABEL FABYAN LOMBARD FUND .... For the comfort and/or entertainment of Nurses in the Hospital.	110.74	5,000.00
THE JOHN R. MACOMBER QUADRANGLE FUND ..... Income for the maintenance of the Macomber Quadrangle.	28.21	1,666.66
THE MALLINCKRODT FUND ..... Income only to be used for the support of the Mallinckrodt Ward (Ward 4) with limited discretion to the Trustees in case this support is no longer needed.		488,594.27

GENERAL HOSPITAL FUNDS (Continued)

	Income	Principal
THE FRANCIS COGSWELL MANNING FUND Income for research work under the direction of Chief of the Medical Service. Bequest of Mrs. Annie F. Selfridge ..... $10,000.00 Sundry Gifts 190.00	3,716.67	10,190.00
THE CAPTAIN MARTELL FUND ..... "The interest to be used for the annual purchase of a book or books for the Warren Library, these books to be seafaring stories with the story of Captain Martell pasted on the inside cover of each one."	91.80	121.36
MASSACHUSETTS GENERAL HOSPITAL SCHOOL OF NURSING GRADUATE NURSES SCHOLARSHIP FUND ..... Income for Graduate Nurse Scholarships Gift of Miss Annabella McCrae	280.73	500.75
JAMES HOWARD MEANS FUND ..... To be used under the direction of the Chief of Medical Service primarily towards bringing to the Hospital on a pro tempore basis physicians or other prominent persons whose presence will aid and advance the work of the Medical Service.	2,298.70	30,150.00
JAMES C. MELVIN FUND ..... Subject to certain annuities, income for any purpose of the Corporation, with nonobligatory suggestion for increasing medical knowledge, assisting persons particularly the young who have had hospital treatment, bettering treatment in country districts and co-operating with the Trustees under the Will of James C. Melvin. Bequest of Mrs. Clara M. Melvin.		671,811.13
MEMORIAL FUND TO THE DOCTORS AND NURSES WHO DIED IN THE WAR OF 1917-18 ..... Income for the general purposes of the Hospital, but preferably for free care of patients. Gift of Base Hospital No. 6 Fund through the Ladies' Visiting Committee.		6,189.47
ALBERT G. MITCHELL FREE BED FUND .... Income for the treatment of cancer with nonobligatory suggestion that use of the bed be given to members of the Department of Music in the Boston Public Schools, or otherwise for the use of the teachers of said schools. Bequest of Albert G. Mitchell $4,055.53 Sundry Gift 25.00		4,080.53
THE MITTON FUND ..... Income to be used for General Surgery purposes under the direction of Dr. Russell.	1,082.53	55,629.64

GENERAL HOSPITAL FUNDS (Continued)

	Income	Principal
THE MIXTER FUND ". . . the income only to be expended under the direction of Dr. W. Jason Mixter, during his life, and thereafter by the Chief of the Neurosurgical Service." Sundry Gifts.	2,259.85	70,392.12
FORRIS JEWETT MOORE AND EMMA BAKER MOORE FUND Income for Hospital uses for the alleviation of human suffering.		76,143.32
FANNIE EDSON MORRISON FUND "Income . . . for the support of the Social Service Department."		711,320.97
FRANCIS A. NEWELL ENDOWMENT FUND Income to be used "for the most approved method of treating hip disease due to accident in indigent children."	7,601.82	50,000.00
NORTH END DIET KITCHEN RESTRICTED FUNDS "Income to provide diet for the sick poor." Sundry Gifts and Bequests.		11,366.78
NORTH END DIET KITCHEN UNRESTRICTED FUNDS "To provide diet for the sick poor." Sundry Gifts and Bequests.		34,716.65
FLORENCE NUTE FUND To be "used on behalf of patients with slender or no means with which to meet Hospital expenses." Bequest of Lewis W. Nute.		68,278.57
DR. ALICE IRENE OUTHOUSE MEMORIAL FUND Income to be used for the purchase of pediatric literature for the Treadwell Library. Sundry Gifts.	80.32	530.00
OUTPATIENT DEPARTMENT FUND Income for needy patients. Bequest of Miss Louie Long.	19.51	3,479.71
EMERETTE O. PATCH FUND For the use of the Baker Memorial.		8,240.84
PATHOLOGICAL LABORATORY AND RANDALL FUNDS Income for Pathological Laboratory. Sundry Gifts and Bequests.		83,875.41
JACOB C. R. PEABODY AND ELSA MASON LORD PEABODY MEMORIAL FUND Income for the Phillips House. Bequest of Mrs. Elsa Mason Lord Peabody.	3,403.60	35,765.40

GENERAL HOSPITAL FUNDS (Continued)

	Income	Principal
PHILLIPS HOUSE NURSES LOAN FUND ..... Income for loans to Phillips House nurses. Sundry Gifts.	2,325.47	2,190.00
MARY GOVE PITMAN FUND FOR UROLOGICAL RESEARCH ..... Income for investigation— *First*: Of the cause, treatment and prevention of recurrence of urinary stones, and *Second*: Of any other pathological or physiological problems encountered in urological surgery which are deemed worthy of investigation, the decision as to their importance to be made by a Committee appointed by the Trustees of the Hospital.	3,353.55	21,051.38
JOHN REDMAN FUND ..... Income for any purpose except erection or repairs of buildings.		455,113.34
RESEARCH AND TEACHING FUND ..... Income for research and teaching.		141,475.84
EDWARD PEIRSON RICHARDSON LECTURESHIP IN MEDICAL SCIENCE ..... "The income to be used to provide honoraria for lectures by visiting scientists, preferably in subjects relating to surgery —" Gifts of Dr. Richardson's Sons in Memory of their Father.	5,945.83	15,000.00
JOHN FYFFE RICHARDSON MEMORIAL FUND ..... Income only to be spent by the Trustees on recommendation of the Chief of the Huntington Memorial Laboratories or the senior cancer investigator preferably for leukemia research or related areas of cancer research. 5% of income to be added to principal each year until the fund reaches $400,000.	4,675.42	28,005.73
MAURICE HOWE RICHARDSON FUND ..... Income for surgical research, as recommended by the Chiefs of the General Surgical Staff. Gifts of Dr. Daniel Fiske Jones ..... $25,200.00 Dr. Edward P. Richardson .... 5,000.00 Mrs. Maurice Howe Richardson ..... 5,000.00 Sundry Gifts 5,200.00	823.30	40,400.00
RICHARDSON TUBERCULOSIS FUND ..... "For the prevention or cure of tuberculosis." Bequest of Mrs. Mary Rich Richardson		276,141.63

GENERAL HOSPITAL FUNDS (Continued)

	Income	Principal
ELSIE M. ROBBINS SOCIAL SERVICE FUND For social service purposes in the Arthritis Clinic.	89.93	12,399.55
WILLIAM MILTON ROSE, M.D., MEMORIAL FUND ..... Income for the benefit of worthy needy persons.		44,766.46
MARY ELIZABETH SALTONSTALL FUND .... Income for the Social Service of the Hospital, "preference being given for the help and care of little children". Bequest of Philip L. Saltonstall.		5,000.00
MARTHA A. SARGENT FREE BED FUND Income for Free Beds in the Women's Department. Bequest of William A. Sargent.		1,042,816.18
SCHOOL OF NURSING SCHOLARSHIP FUND For scholarships at the School of Nursing.	390.13	14,991.42
THE CHARLES L. SCUDDER FUND ..... Income for the Fracture Service. Bequest of Miss Elizabeth M. Garritt.	10,221.30	30,000.00
GEORGE C. AND ANNE H. SHATTUCK FUND ..... Income for music at the General Hospital annually on Christmas Day and Easter Sunday. Surplus income may be used for music on other days, including radio. Gift of Dr. Frederick C. Shattuck.	970.85	2,000.00
THE TERRY SHUMAN MEMORIAL FUND Income for additions to the Library of the Neurology Department of books on research, periodicals, reports or publications, etc.	214.09	1,320.10
EMMA H. SLADE FUND ..... For any Hospital purpose, but preferably to provide particularly for those in the middle ranks of life who need such care.		10,195.20
SOCIAL SERVICE FUND ..... Income for Social Service.		111,015.15
THE CHARLES CHESLEY SPRINGER FUND "Income for the relief of soldiers, sailors or marines who have been in the military service of the United States and who are residents of Massachusetts, and for the relief of their families. If at any time there should not be any soldiers, sailors, marines or their families requiring such relief, the income may be applied to any of the purposes of the Hospital." Bequest of Miss Mary W. Springer.	–180.00	345,020.58

GENERAL HOSPITAL FUNDS (Continued)

	Income	Principal
STAFF MEMORIAL FUND Income to be expended by direction of the General Executive Committee. Sundry Gifts.	1,310.86	3,811.00
SURGICAL INSTRUMENT FUND Income for special surgical instruments. Gift of J. Arthur Beebe ..... $5,000.00 Sundry Gifts 1,475.00	301.26	6,475.00
GEORGE N. TALBOT FUND Income for Children's Medical Department as directed by Chief of Service. Bequest of George N. Talbot and Gifts of Dr. Fritz B. Talbot.	784.92	14,151.40
MRS. NATHANIEL THAYER FUND Income to be used "preferably for the Social Service Department."		10,000.00
ANNIE A. LONGFELLOW THORP MEMORIAL FUND Income for Warren Library. Sundry Gifts.	2,591.83	3,450.00
THYROID LABORATORY FUND Income only for the Thyroid Laboratory.	73.11	2,751.29
TRAINING SCHOOL FOR NURSES FUND Income for Training School for Nurses. Sundry Gifts and Bequests.		40,037.92
TREADWELL LIBRARY FUND Income for the Treadwell Library. Bequest of Dr. J. G. Treadwell $5,000.00 Sundry Gifts and Bequests 2,555.00	304.30	7,555.00
LAWRENCE TUCKER FUND So far as expedient for the treatment and alleviation of venereal diseases, and otherwise for the general purposes of the Hospital.		429,753.01
UROLOGICAL PERIODICALS FUND Income for purchase of urological periodicals for Staff Room of Urological Ward. Gift of Dr. Channing S. Swan.	438.70	1,000.00
FRANCES KNOWLES WARREN FUND Income for the General Purposes of the Hospital; principal available in emergency. Bequest of Mrs. George E. Warren.		30,000.00
WARREN LIBRARY FUND Income for books for patients. Sundry Gifts and Bequest.	2,104.57	5,067.19
DEPENDENCE S. AND WALTER B. WATERMAN FUND "Income to be applied to the care of those who can pay something but not all." Bequest of Walter Bowen Waterman.		134,573.62

GENERAL HOSPITAL FUNDS (Continued)

	Income	Principal
GEORGE ROBERT WHITE FUND		4,119,730.30
To be held as a permanent fund to be known as the George Robert White Fund, the income only to be used first for the maintenance and equipment of the George Robert White Memorial building and second for the general purposes of the Hospital. Bequest of Mrs. Harriet J. Bradbury		
GEORGE ROBERT WHITE FUND		100,000.00
"Income for development or maintenance of a department for treatment of diseases of the skin." Bequest of George Robert White		
DR. JAMES C. WHITE NEUROSURGICAL FUND		921.60
Income to be added to principal until the fund reaches $5,000; thereafter 50% shall be added until the fund reaches $10,000; and thereafter 25% to $50,000. Income not so added to principal to be used in the interest and promotion of neurosurgery under the direction of Dr. James C. White.		
GEORGE WIGGLESWORTH FUND		57,748.02
Ten per cent of gross income in each year to be added to principal; net income remaining for the general purposes of the Corporation.		
WOODEN LEG FUND	1,303.97	7,600.00
Income for wooden legs and other devices for diseased and injured legs.		
Bequest of Nathaniel I. Bowditch $5,000.00		
Sundry Gifts 2,600.00		
TEMPORARY FUNDS		
Special Purposes	5,493,062.59	
Endowment Income Undistributed to Funds	254,921.57	
TOTAL GENERAL HOSPITAL FUNDS	$5,858,738.39	$22,856,295.33

BUILDING FUNDS

CLINICS BUILDING FUNDS	$ 321,960.21
150TH ANNIVERSARY FUNDS	1,158,238.18
BULFINCH ALTERATIONS FUND	153,000.00
KENNEDY LABORATORIES FUND	–221,838.13
STORROW HOUSE CONSTRUCTION FUND	65,000.00
SUNDRY FUNDS	1,025,422.45
TOTAL BUILDING FUNDS	$2,501,782.71

McLEAN HOSPITAL FUNDS

	Income	Principal
EDWARD STANLEY ABBOT MEMORIAL FUND ..... For scientific investigation at McLean Hospital.	$1,748.68	$ 10,000.00
AMUSEMENT, ENTERTAINMENT OR OCCUPATION FUND ..... Income for amusement, entertainment or occupation of patients. Sundry Gifts and Bequests.		21,135.00
WENTWORTH HIGGINSON BARNEY FUND Income to be spent at the discretion of the Director. Gift of Dr. J. Dellinger Barney. $1,500.00 Income added 258.65		3,611.27
EMILY H. BOURNE FUND Income for the training of nurses in mental nursing and to aid in the prevention and cure of deafness.		10,000.00
CLINICAL RESEARCH FUND ..... Income for research. Sundry Gifts and Bequests.		86,081.31
THE ISOBEL COLLINS SPECIAL FUND FOR THE LIBRARY OF McLEAN HOSPITAL .. Income for the purchase of books, music, and other things appropriate to the building up of a musical alcove for the library. Gift of Frank W. Kimball.		1,075.90
COWLES-TUTTLE MEMORIAL ART FUND .. Income for Art Room.	2,470.35	5,000.00
SAMUEL ELIOT MEMORIAL CHAPEL FUND For maintenance and operation of Chapel.		10,904.84
FREE BED FUNDS ..... Income for Free Beds. Sundry Gifts and Bequests.		356,187.45
GENERAL FUND ..... For any Hospital purpose.		–778,665.05
INCOME UNRESTRICTED FUNDS ..... Income for any Hospital purpose. Sundry Gifts and Bequests.		171,205.24
ANNABELLA McCRAE SCHOLARSHIP FUND Income for Scholarships for the School of Nursing	2,052.96	4,154.21
WETHERILL FUND ..... The income only to be used for the Wetherill Awards to graduates of the McLean Hospital School of Nursing. Gift of Dr. E. Stanley Abbott.		2,000.00

McLEAN HOSPITAL FUNDS (Continued)

	Income	Principal
MARY JESSIE WILLIS MEMORIAL FUND To establish a free bed in memory of Mary Jessie Willis, to furnish luxuries, comforts and amusements to such insane women patients as may be unable to provide the same for themselves, and generally for the uses of the Hospital. Bequest of Mrs. Frances H. Willis.		24,283.63
BUILDING FUND		679,235.02
TEMPORARY FUNDS		
Special Purposes	343,781.93	
Endowment Income Undistributed to Funds	$ 8,605.38	
TOTAL McLEAN HOSPITAL FUNDS	$358,659.30	$606,208.82

FIDUCIARY FUNDS

BOWDITCH HISTORY FUND For the publication of a history of the Hospital. Bequest of N. I. Bowditch.		$ 2,000.00
BULLARD ANNUITY FUND	$919.17	100,000.00
BETTY DUMAINE FUND To be held until accumulated income plus additions reach $100,000, then one-half of income to be added to principal and balance used for such Hospital purposes as Trustees deem best.		3,700.89
EYEGLASS FUND Income payable to a life interest. Bequest of Frances A. Burnham.		2,282.00
THE AGNES B. FITZGERALD FUND Temporarily payable to a life interest.		3,110.27
FOSTER FAMILY FUND "Income to be used to pay the hospital bills of patients nominated by the donor or his wife. After their decease the power of nomination shall descend in succession to their oldest child living, then grandchild. Thereafter, or in case the line of descent shall cease, the income shall be for the unrestricted uses of the Hospital." Gift of C. H. W. Foster.	8,704.50	15,000.00
MABEL HOVEY HARRIS MEMORIAL FUND "In Memory of Mrs. Henry W. Harris" Income to be used at the discretion of the Ladies' Visiting Committee for the benefit of the Hospital and its patients. Gift of Mr. and Mrs. Edwin S. Webster.		5,375.00

FIDUCIARY FUNDS (Continued)

	Income	Principal
SARAH PROCTOR JOSLIN FUND ..... Income to be expended by the Ladies' Visiting Committee for books and other articles.		1,000.00
MARION LEE LAWRENCE MEMORIAL FUND Income to be administered by the Ladies' Visiting Committee, or by any subcommittee duly authorized by them, for the benefit of the Hospital and its patients. "Given by Her Family and Friends."		$ 10,943.00
FANNIE NEWELL SIMES FUND ..... Income payable to a life interest. Gift of Miss Olive Simes.		20,000.00
MASSACHUSETTS GENERAL HOSPITAL SCHOOL OF NURSING ENDOWMENT FUND ..... Income to be used as directed by vote of the Committee created under the Deed of Gift.		314,042.22
ANNIE NORTON WARD FUND ..... For charitable purposes connected with the Hospital pursuant to the vote of the Ladies' Visiting Committee.		1,000.00
WARREN PRIZE FUND ..... Income for a triennial prize. Bequest of Dr. J. Mason Warren.	1,037.73	11,889.84
KATHARYN HOYT WATSON FUND ..... For use of the Ladies' Visiting Committee.		1,000.00
Suspense and Special Funds		3,303.23
TOTAL FIDUCIARY FUNDS	$10,661.40	$494,646.45

SUMMARY

Principal Funds	$26,883,410.73
Temporary Funds	6,228,059.09
Funds Invested in Plant	22,615,430.52
Director's Accounts	6,185,513.83
	$61,912,414.17
Gain	223,411.52
Funds	$62,135,825.69

Examination of Accounts

February 12, 1963

To the Trustees
The Massachusetts General Hospital
45 Milk Street
Boston, Massachusetts

Sirs:

We have examined the balance sheet of The Massachusetts General Hospital as at September 30, 1962 and the related income statements of the General Hospital and McLean Hospital for the period then ended (52 weeks). Our examination was made in accordance with generally accepted auditing standards, and accordingly included such tests of the accounting records and such other auditing procedures as we considered necessary in the circumstances.

Under the terms of pension plans adopted by the hospital, the hospital's portion of benefits payable to employees compensated from general operating funds of the hospital will be charged against operations as such benefits are paid. No provision has been made in the accompanying financial statements for the amount of the hospital's liability at September 30, 1962, for service benefits accruing to employees paid from general operating funds.

Subject to the explanation noted above, in our opinion, the accompanying balance sheet and related income statements, with their supporting exhibits, present fairly the financial position of The Massachusetts General Hospital at September 30, 1962 and the results of its operations for the period ended at that date (52 weeks) in conformity with generally accepted accounting principles applied on a basis consistent with that of the preceding period.

We have made a test check of the charges to income funds for special purposes for the year ended September 30, 1962 (including income arising from principal funds), in respect of the General Hospital and McLean Hospital funds. Based upon such examination and our review of internal control maintained in relation to funds, it is our opinion that charges made against the above-mentioned funds were properly chargeable thereto.

Patterson, Teele & Dennis

GIFTS AND BEQUESTS 1961-1962

GENERAL FUND

FOR ANY HOSPITAL PURPOSE		
Bequests	$ 918,939.34	
Gifts	217,673.00	$ 1,136,612.34

150TH ANNIVERSARY FUNDS

Gifts	$ 1,294,866.63

GENERAL HOSPITAL FUNDS

Fund No.			
1015	PHILIP R. AND ANNE K. ALLEN ENDOWMENT FUND		
	Bequest of Philip R. Allen		$ 25,000.00
1070	JOSEPH C. AUB FUND		
	In Memory of Almer Wong Jayne	$ 653.30	
	In Memory of Anthony J. Spina	365.00	
	In Memory of Carl Tishler	2.00	1,020.30
1240	CANCER RESEARCH ENDOWMENT FUND		
	Bequest of E. Frank Leighton	$ 17,470.34	
	In Memory of Samuel Carruthers	10.00	
	In Memory of J. Lothrop Motley	160.00	17,640.34
1245	IDA M. CANNON MEMORIAL FUND		
	Gifts		5,188.53
1290	MGH ENDOWMENT FUND FOR STUDY OF CHRONIC DISEASES		
	In Memory of Mrs. Murphy	$ 10.00	
	Gift	10,000.00	10,010.00
1410	DR. WALTER JAMES DODD MEMORIAL FUND		
	Gift		100.00
1580	GENERAL SURGERY FUND		
	Gifts		10,010.00
1710	INCOME UNRESTRICTED FUNDS		
	Samuel Appleton Fund		
	Bequest of Miss Maud E. Appleton	$ 6,026.09	
	Frank E. Beckwith Fund		
	Bequest of J. Murray Baker	241.59	
	Mary Buckminster Moors Fund		
	Bequest of Arthur W. Moors	4,000.00	10,267.68
1768	CHESTER MORSE JONES HOUSE STAFF EDUCATIONAL FUND		
	Gift		500.00

1770	DANIEL FISKE JONES MEMORIAL FUND			
	In Memory of Mrs. Daniel Fiske Jones	$	500.00	
	In Memory of Dr. and Mrs. Daniel Fiske Jones		100.00	
	Gift		50.00	650.00
1800	MARGERY AMORY KETCHUM MEMORIAL FUND			
	Gift			10.00
1818	JOHN R. MACOMBER QUADRANGLE FUND			
	Gift			1,666.66
1940	THE MITTON FUND			
	Gifts			9,290.56
1950	THE MIXTER FUND			
	In Memory of William S. Matthie	$	5.00	
	Gifts		125.00	130.00
2401	MGH, SCHOOL OF NURSING SCHOLARSHIP FUND			
	In Memory of Anna M. Crotty	$	3,713.85	
	In Memory of Dorothy Dayton Morgan		5,000.00	
	Gifts		1,445.63	10,159.48
2440	TERRY SHUMAN MEMORIAL FUND			
	Gift			50.00
2600	THE THYROID LABORATORY FUND			
	Gift			500.00
2815	UNRESTRICTED FREE BED FUND			
	Bequest of Emilia F. DeFerrari	$	500.00	
	In Memory of Margaret Malagodi		75.00	
	Gifts		350.00	925.00
2910	CONVALESCENT HOSPITAL FUND			
	Gift of Trustees u/w Helen O. Storrow			1,875.00
				$ 104,993.55

McLEAN HOSPITAL FUNDS

GENERAL FUND				
	Bequest of Arthur J. Keefe	$	35,287.87	
	In Memory of Nathalie and Gregory Kelley ..		5.00	
	Gifts		4,941.01	$ 40,233.88
McLEAN BUILDING FUNDS				
	Public Health Service Grant			7,316.00
				$ 47,549.88

FIDUCIARY FUNDS

MGH SCHOOL OF NURSING ENDOWMENT FUND		
Gift	$	10.00
TOTAL PRINCIPAL FUNDS	$	2,584,032.40

Income Funds

General Hospital Funds

Treasurer's Funds

ANNUAL FREE BED FUND		
Mrs. William H. Ames	$ 588.00	
Mr. and Mrs. Ralph Lowell	200.00	
In Memory of John Lowell 1816-1820		
John Amory Lowell 1843-1851		
John Lowell 1856-1870		
John Lowell 1910-1922		
Trustees of The Massachusetts General Hospital		
Dr. and Mrs. Francis M. Rackemann	100.00	
The 1916 Sewing Circle	100.00	
United Community Services	2,650.00	$ 3,638.00
CURRENT EXPENSE FUND		
Bequest of Miss Caroline E. Chickering	$ 10,386.13	
Committee of The Permanent Charity Fund	23,000.00	
Mrs. Elisha Flagg	100.00	
Bequest of James O. Graves	115.53	
Mr. Hugh Whitney	100.00	
United Community Services	172,824.00	$ 206,525.66
THE ARTHUR W. ALLEN MEMORIAL FUND		
Gift		5,412.50
MRS. LARZ ANDERSON FUND		
Bequest of Mrs. Larz Anderson		26,500.00
FRANCES HOAR FOSTER MEMORIAL FUND		
Gifts		364.00
REGINALD GRAY ESTATE		
Bequest of Reginald Gray		1,477,038.13
HOUSE OFFICERS LOAN FUND		
Gift		19.82
CHESTER M. JONES LECTURESHIP FUND		
Gift		25.00
KAYPE FUND		
Gifts		1,641.50
MISCELLANEOUS FUNDS		
For Miscellaneous Purposes		6,820.00
RICHARD H. SWEET MEMORIAL FUND		
Gifts		6,889.00
ELIZABETH TILTON FUND		
Bequest of Elizabeth Tilton		20,000.00
		$ 1,544,709.95

Income Funds

General Hospital Funds

Funds for Special Purposes

Bequests		$ 2,500.00
Gifts		264,643.07
Grants—Government	$4,640,843.66	
Foundations	894,087.34	5,534,931.00
		$ 5,802,074.07

McLEAN HOSPITAL FUNDS

TEMPORARY INCOME

Gifts		$ 9,365.00
Grants—Government	$ 362,985.45	
Foundations	157,043.00	520,028.45
		$ 529,393.45

TOTAL INCOME FUNDS		$ 8,086,341.13
TOTAL PRINCIPAL FUNDS	$2,584,032.40	
TOTAL INCOME FUNDS	8,086,341.13	$10,670,373.53

Henry R. Guild
Treasurer

ONE HUNDRED AND FORTY-FIFTH

ANNUAL REPORT

OF THE

McLEAN HOSPITAL

A DIVISION OF THE

MASSACHUSETTS GENERAL HOSPITAL

1962

BELMONT

MASSACHUSETTS

Officers of the McLean Hospital 1963

President
Phillips Ketchum

Vice-President
Francis C. Gray

Treasurer
Henry R. Guild

Secretary and Assistant Treasurer
George S. Weld

Trustees

1935	Francis C. Gray, Chairman, 10 Post Office Square
1947	John E. Lawrence, Vice-Chairman, 177 Milk Street
1928	Phillips Ketchum, 294 Washington Street
1939	Henry R. Guild, 294 Washington Street
1940	Ralph Lowell, 100 Franklin Street
1941	*Rt. Rev. Robert P. Barry, 71 Warner Street, West Somerville
1943	Lloyd D. Brace, 67 Milk Street
1947	*Francis O. Schmitt, Ph.D., Department of Biology, Massachusetts Institute of Technology, Cambridge
1955	Philip H. Theopold, 294 Washington Street
1958	*Sidney R. Rabb, 393 D Street, South Boston
1962	Francis H. Burr, 50 Federal Street
1963	*H. Brooks Beck, 53 State Street

Associate Trustees

1962	Francis W. Hatch, 462 Boylston Street
1962	Edwin W. Hiam, 75 Federal Street
1963	George Putnam, 60 Congress Street
1963	Elliot L. Richardson, 73 Tremont Street

Other Members of the Corporation

Mrs. Frank G. Allen
Philip K. Allen
John S. Ames, Jr.
Robert Amory, Jr.
O. Kelley Anderson
Mrs. David B. Arnold
G. Storer Baldwin
Mrs. James T. Baldwin
Abram Berkowitz
Harry J. Blake
Gerald W. Blakely, Jr.
Mrs. Henry M. Bliss
Mrs. Lloyd D. Brace
J. Howard Bushway
Mrs. Charles C. Cabot
Thomas D. Cabot
John P. Chase
Theodore Chase
Frederic C. Church
Edward D. Churchill, M.D.
William H. Claflin
Charles E. Cotting

*Appointed by the Governor of the Commonwealth

Mrs. Richard E. Danielson
Miss Betty Dumaine
Robert R. Duncan
Charles J. Dunn
William Ehrlich
Nathaniel W. Faxon, M.D.
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Michael A. Fredo
Alvan T. Fuller, Jr.
Mrs. Francis C. Gray
Edward B. Hanify
Roy J. Heffernan, M.D.
Ernest Henderson
Harold D. Hodgkinson
Mrs. Robert Homans
Gilbert H. Hood, Jr.
Harvey P. Hood
Arnold W. Hunnewell
Donald J. Hurley
William T. Kemble
The Honorable John F. Kennedy
Mrs. Wheaton Kittredge, Jr.
Miss Aimee Lamb
Henry A. Laughlin
Alfred L. Loomis
Joseph W. Lund
Arthur T. Lyman
Francis P. McCarthy, M.D.
Leland F. McKittrick, M.D.
James Howard Means, M.D.
James Jackson Minot
George F. Mumford
George Olmsted, Jr.
James H. Orr
Miss Amelia Peabody
Mrs. Sumner Pingree
William M. Rand
Miss Anna P. Revere
Dwight P. Robinson, Jr.
Horatio Rogers, M.D.
Joseph Santosuosso, M.D.
Rt. Rev. Henry K. Sherrill
Alan Steinert
Mrs. Abbot Stevens
Raymond S. Stevens
John O. Stubbs
Thomas C. Thacher
Mrs. Augustus Thorndike
Richard K. Thorndike
Samuel J. Tomasello
John B. Vernaglia, M.D.
F. Frank Vorenberg
Mrs. Edwin S. Webster
Edward A. Weeks, Jr.
Paul D. White, M.D.

McLEAN HOSPITAL COMMITTEE

Ralph Lowell, *Chairman*

Rt. Rev. Robert P. Barry — Sidney R. Rabb

George Putnam

ADMINISTRATION

Director
Francis de Marneffe, M.D.

Administrator
Henry J. Langevin, M.S. Psych. Nurs., M.S.H.A., (M) A.C.H.A.

Assistant Administrator
Henry H. Harvey, B.S. Nurs., M.P.A.

Administrative Assistant
Willa F. Pasho, B.S.

DIRECTORS OF DEPARTMENTS

Accounting
Thomas J. Burley, Comptroller

Activity Therapies
Rose Farkas, M.S.S.

Dietetics and Food Service
Charlotte L. Donaldson, B.A., B.S.

Grounds and Transportation
Howard R. Gallant

Housekeeping and Laundry
Harold F. Smith

Medical Records
Jean R. Poor, R.R.L.

Personnel
John E. Lowe, B.B.A.

Pharmacy
George R. Zager, Reg. Ph., M.S.

Plant and Operations
John B. Larson, B.S.
John J. Blanchard, Assistant

Psychiatric Social Work
Golda Edinburg, M.S.S.S.

Psychology
Irene Pierce Stiver, Ph.D.

Purchasing
Alexander Armour

Director of School of Nursing and Nursing Service
Margaret C. Tibbetts, R.N., B.S. in Nurs. Ed.

Assistant Directors of Nursing Service
George B. Durham, R.N., A.A., Th.M., B.S.
Daniel H. Lennox, R.N., B.S. in Nursing
Americo A. Zerneri, R.N., B.S.

Assistant Director of School of Nursing
Mildred C. Makin, R.N., B.S. in Nurs. Ed., Ed.M.

McLEAN HOSPITAL STAFF

Consulting Staff

James B. Ayer, M.D., *Neurologist*
Stanley Cobb, M.D., *Psychiatrist*
Harry C. Solomon, M.D., *Psychiatrist*
Paul D. White, M.D., *Cardiologist*

MEDICAL STAFF

Director

Francis de Marneffe, M.D.

Psychiatrist in Chief

Alfred H. Stanton, M.D.

Director of Clinical Psychiatry

Samuel Silverman, M.D.

Associate Director of Clinical Psychiatry

Paul M. Howard, M.D.

Psychiatrists

Erich Lindemann, M.D.
Elizabeth R. Zetzel, M.D.

Attending Psychiatrists

Morris H. Adler, M.D.
Martin A. Berezin, M.D.
William F. Murphy, M.D.
Henry Wermer, M.D.

Associate Psychiatrists

Edward M. Daniels, M.D.
Stanley H. Eldred, M.D.
James A. Haycox, M.D.
Merton J. Kahne, M.D.
Maria Lorenz, M.D.

Associate Attending Psychiatrists

Arthur J. Cain, M.D.
P. Stefan Kraus, M.D.
Arnold H. Modell, M.D.
Suzanne T. van Amerongen, M.D.
Norman E. Zinberg, M.D.

Assistant Psychiatrists

Lloyd M. Caplan, M.D.
John G. Clark, Jr., M.D.
Paul R. Dinsmore, M.D.
Dorr F. Hallenbeck, Jr., M.D.
Peter B. Jenney, M.D.
Egbert H. Mueller, M.D.
Phelps M. Robinson, M.D.
Alan A. Stone, M.D.
Maurice Vanderpol, M.D.
Mark M. Walter, M.D.
Stephen L. Washburn, M.D.

Assistant Attending Psychiatrists

Barbara L. Aeschliman, M.D.
Ruth B. Beuscher, M.D.
William A. Binstock, M.D.
George Chalpin, M.D.
Mignon C. Chasen, M.D.
Jacob Christ, M.D.
Herbert S. Cline, M.D.
Hadassah S. Daniels, M.D.
William Kornfeld, M.D.
Charles E. Magraw, M.D.
Theodore Sack, M.D.
Harold D. Stalvey, M.D.
William D. Temby, M.D.
Frederick E. Whiskin, M.D.
Edward L. Zarsky, M.D.

Clinical Assistants in Psychiatry

A. Scott Anderson, Jr., M.D.
Joseph H. Brenner, M.D.
Edwin M. Davidson, M.D.
Henry U. Grunebaum, M.D.
Melvin M. Kayce, M.D.
Barbara G. Mueller, M.D.
Harry S. Olin, M.D.
Jalna Ann Perry, M.D.

Clinical Fellows in Psychiatry

Kathryn S. Beck, M.D.
Jane M. Berman, M.D.
Peter T. Choras, M.D.
Roy M. Coleman, M.D.
Gerhart A. Duda, M.D.
Donald J. Fern, M.D.
Eda M. Kahana, M.D.
Bernard Levey, M.D.
Harold W. Williams, M.D.

Resident Psychiatrists

As of January 1, 1963, with subsequent appointments

Jacqueline Amati, M.D.
John H. Backman, M.D.
Samuel H. Barondes, M.D.
Guido Belsasso, M.D.
Douglas Buchanan, M.D.
Richard D. Budson, M.D.
Randolph Catlin, Jr., M.D.
Robert M. Chalfin, M.D.
Theodore Dreier, M.D.
Matthew P. Dumont, M.D.
Robert W. Farkas, M.D.
William H. Goodson, Jr., M.D.
Sidney Green, M.D.
Albert E. Herman, M.D.
Alexandra M. Kail, M.D.
Miroslav M. Kovacevich, M.D.
John B. Livingstone, M.D.
Michael T. McGuire, M.D.
Judith G. Ronat, M.D.
Christopher V. Rowland, Jr., M.D.
Melvyn B. Schupack, M.D.
Richard Sens, M.D.
Harvey M. Shein, M.D.
John B. Spillane, M.D.
Lawrence A. Stone, M.D.
Larry H. Strasburger, M.D.
John S. Strauss, M.D.
Olga S. Wermer, M.D.
Emmett Wilson, Jr., M.D.
Jacob C. Wolterbeek, M.D.

Director of Internal Medicine and of Research in Clinical Physiology

Mark D. Altschule, M.D.

Clinical Assistants in Medicine

William A. Hall, M.D.
Hershel Jick, M.D.
Paul R. Minton, M.D.

Assistant Neurologist

Pierre M. Dreyfus, M.D.

Assistant Dental Surgeon

William H. Tingey, Jr., D.M.D.

Roentgenologist

Majic S. Potsaid, M.D.

RESEARCH LABORATORY

Director of Scientific Research

Jordi Folch-Pi, M.D.

Advisory Committee to Director of Scientific Research

Raymond D. Adams, *Chairman*
Walter Bauer, M.D.
Rafael Lorente de No, M.D.
Fritz A. Lipmann, M.D.
Donald D. Van Slyke, Ph.D.
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Alfred Pope, M.D.

Associate Biophysicist
J. David Robertson, M.D., Ph.D.

Associate Neuropathologist
Helen H. Hess, M.D.

Associate Biochemists
George P. Hauser, Ph.D.
Francis N. LeBaron, Ph.D.
Pierre J. Stoffyn, Ph.D.

Assistant Biochemists
Lewis C. Mokrasch, Ph.D.
Anne Marie Stoffyn, Ph.D.

Research Fellows in Neuropathology
Ruth M. Landolt, M.D.
Richard N. Lolley, Ph.D.

Research Fellows in Biochemistry
Howard S. Maker, M.D.
Yasuo Takahashi, M.D.

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William C. Kvaraceus, Ed.D.

Consultant in Education
Helen J. Kenney, Ed.D.

Associate Psychologists
Robert D. Schnitzer, Ph.D.
Ralph G. Semon, Ph.D.
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Assistant Psychologist
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Fellow
Anita Laverman, M.A.

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Constance A. McGrath, S.M.
Martha M. Norton, M.S.W.

Research Social Worker
Mollie Grob, S.M.

Social Group Workers
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Head Nurse, Health and Operating Room
Barbara N. Dinan, R.N.

Administrative Assistant
Ruth MacLeod, R.N.

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Vera K. Dunkley, R.N.
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Donald J. MacLean, R.N.
John P. Pitcherale, R.N., B.S. in Nurs. Ed.

Psychiatric Nursing Instructor
(Nursing Service)
LaVonne E. Davidson, R.N., B.S. in Nurs. Ed., M.S.

CLINICAL NURSING CONSULTANT
Ida J. Pelletier, R.N., B.S. in Pub. Health, M.A.

UNIT HEADS

Chapel Organist
Homer P. Whitford, D. Music

Physical Therapy
Thomas A. Crapo, R.N., R.P.T.
A. Else Fog, R.P.T.

Libraries
Hector Bossange, M.A.

X-Ray
Herbert A. Davidson

Seamstress
Cretie Harris

Report of the Director

To the Trustees of the Massachusetts General Hospital:

The Report for the Fiscal Year ended September 30, 1962 is respectfully submitted.

On July 1, 1962 the administrative reorganization of the hospital went into effect. The Director of Hospital Affairs assumed general responsibility for the hospital and Dr. Alfred H. Stanton continued as Psychiatrist in Chief. Mr. Henry J. Langevin was appointed Administrator.

The last quarter of the fiscal year was a period of transition from one administration to another, and the fact that this transition was successfully negotiated testifies to the stability of the institution and the good will and cooperation of all concerned.

Because of the timing of these changes, the previous year is reviewed by the Psychiatrist in Chief and this report will address itself briefly to some of the hospital's present and future needs.

In the space of a few years the hospital has changed from a relatively simple organization to a very complex one: the psychiatric staff has grown six-fold; Social Work and Social Science departments were organized; the Psychology Department was expanded, Day and Night Care programs were initiated and expanded; the treatment of adolescents increased markedly and a high school program was started on the grounds to ensure their education; the residency training program was strengthened and markedly expanded; psychotherapy was made available to all patients who could benefit from it, and group therapy was initiated; the Research Laboratory continued to expand, and research in the Behavioral Sciences was started.

The organization of these clinical, teaching, and research programs has become more complex. For the patients and the hospital to benefit maximally from these programs, a high degree of coordination between them must be achieved, and because of the tremendous expansion of the past few years this has not always been possible. A review of the organization and the implementation of many of these programs is currently under way.

Certain other programs appear well suited for expansion. The experiment of setting up a high school on the hospital grounds to provide education for adolescent patients is proving successful and is

certainly partly responsible for the fact that the hospital has become known as a treatment center for adolescents. Patients of college age are also admitted to the hospital, and we are studying the possibility of setting up an educational program for college students in the hospital. The Advisory Committee on Patient Education, formed at the end of the year and composed of leading physicians and educators, in addition to members of the staff, is playing a crucial role in the planning of this program.

In the past, at McLean as elsewhere, the major hospital activity was the treatment of chronic patients. Recently the emphasis has been placed more on active treatment and rehabilitation of acutely ill patients and, more recently still, on the preventive aspects of psychiatric treatment. With the expansion of the Day Care Program, the hospital should explore the possibility of providing other types of psychiatric service to individuals in the community who do not require admission to the hospital. Diagnostic, consultative and therapeutic services could be offered in a clinic setting to those in the neighboring communities who are not able to obtain these professional services on a private basis.

Such a service would be useful in many ways. It would make psychiatric treatment available to a broader section of society than McLean has reached in the past; it would strengthen the educational program of the hospital by providing broader educational experience to the staff than is currently possible; it would play a crucial role in strengthening the relationship of the hospital to the local community and encourage greater financial support for the hospital.

A long range task is to plan how the hospital is going to meet its responsibility to the community in the next half century. The Rehabilitation Center which will be open in the spring of 1963 is an important step in the modernization of the hospital. Its importance is much more than the mere rearrangement of various hospital activities under one roof. It will, of course, provide for these, but in addition, both in architecture and in concept, it is a radical break with the past and gives the hospital a new beginning. In addition to making the therapeutic programs more effective it will convey to the community at large some knowledge of the therapeutic spirit of the hospital, and by being more inviting than the present old buildings it will facilitate the contact between the hospital and the community.

The Rehabilitation Center should be only the first step, however, in the renovation of the hospital, because much of the physical plant is

obsolete and inadequate for the hospital's needs. The most serious deficiencies of the present buildings are their internal arrangement and the distance between them. These buildings were adequate for patient care in an age when labor was relatively inexpensive, when fewer people with high professional skills were required in the treatment of patients, and before so much of the patients' time was spent in activities off the ward. The internal arrangement of the buildings and the distance between them require a very large number of trained personnel, especially nursing personnel, in order to provide adequate supervision of patients in the buildings and while being escorted from one building to another.

While the planning of new buildings for the hospital will require more study, the best plan may prove to be one which would include the building of one or two buildings to house all the patients in the hospital in surroundings which would be more in keeping with present concepts of comfort and efficiency. Under this plan the present hospital buildings could be improved relatively inexpensively to provide much needed space for such purposes as offices, classrooms, clinics, research facilities, etc.

A major building program would require funds from sources other than hospital income, i.e., financial support from the community. The extent of such support must depend ultimately on how the community sees the hospital meeting its needs, that is, on the public image of the hospital.

It may therefore be useful to consider some of the possible reasons why the relative amount of financial support from the community, which McLean has received in comparison to the General Hospital, has changed in the course of the 150 years of their joint history. Initially, the "Asylum" received more financial support from the community than the General Hospital. Recently McLean has been less fortunate. In the course of its history the General Hospital has become the world famous institution which we know today, revered by professional people and laymen alike, whereas McLean, though highly respected in psychiatric circles, is not as well known by the general public. It is important for the future development of the hospital to determine why McLean has, relatively speaking, become less attractive to financial contributors, and the following are suggested as possible contributing factors:

1. Psychiatry developed at a slower rate than other branches of

medicine. Fewer physicians went into psychiatry, the teaching of psychiatry in medical schools was rudimentary, research was almost non-existent, and inevitably the effective treatment of mental illness developed slowly. Fortunately, this is no longer true today, both nationally and at McLean, and the hospital may therefore be expected to benefit from this change in the psychiatric picture.

Publicizing the fact that treatment is no longer primarily custodial, that the emphasis has been placed on treatment, rehabilitation and prevention to the point where the average length of stay of patients at McLean is ten weeks, and that sometimes admission to full hospital care can be avoided—these factors would contribute significantly to the improvement of the hospital's image in the public mind and result in greater financial support for the hospital.

In this connection, also, the expansion of the research programs at the hospital under Dr. Folch-Pi and Dr. Stanton have a significant contribution to make.

2. The image which the public has of the wealth of the patients treated at McLean probably also deprives the hospital of financial support in at least two ways. Because McLean is thought to have only a wealthy clientele, it may lead, on the one hand, to the conclusion that the hospital does not require financial contributions and, on the other hand, that because is treats the wealthy it is less deserving of financial support from the community. The image which the public has of the General Hospital is probably due at least in part to the understanding that anyone who appears at its doors will be treated, and the General Hospital is a "public" hospital in the sense of providing service to the general public. McLean has not been able to make such a claim and its public appeal is therefore diminished notwithstanding the fact that the hospital has over the years contributed substantially to the treatment of many patients who could not always pay the full rate.

In any case it is not true that the hospital is available only to the wealthiest members of society. The services of the hospital have become available to a broader section of society than formerly through a rise in income, through insurance, and through shorter and partial hospitalizations such as Day Care and Night Care. The former picture of the hospital still persists to a large

extent, however, and any steps which could be taken to make the services of the hospital available to an even broader section of society would not only benefit the patient, but also the hospital by improving its public image and probably broadening the base of its financial support. The development of an Out-Patient Department for those in neighboring communities who cannot afford private psychiatric treatment would help accomplish this end.

3. The mental hospital faces an additional problem (and one requiring more time to solve) in its attempt to gain greater financial support from the community, and this problem is due to the fact that it deals with mental illness. Through the ages the discomfort which the public feels when reminded of the existence of mental illness has often led to a wish to avoid the unpleasant reality and to ignore and ostracize the mentally ill. This attitude has changed but slowly. This feeling was an understandable though regrettable reaction to an illness which appeared so mysterious and so hopeless to treat. But in this area, too, the picture has changed. As the public achieves greater understanding of what now can be done for the treatment and prevention of severe psychiatric illnesses, the hospital may hope that the community will support the mental hospital financially to a greater degree than formerly.

In summary, the tremendous changes which have occurred in the hospital, particularly in the last eight years, have firmly established it as one of the leading psychiatric centers in the country in patient care, in teaching, and in research. The consolidation of existing programs and the development of new ones, combined with efforts to publicize more widely what the hospital accomplishes will provide substantial grounds for being very optimistic about the future of the hospital.

Even in the short time that the Director of Hospital Affairs has been responsible for the hospital, he has become deeply aware of the crucial importance to McLean of the continuing interest, understanding and support of the Trustees and particularly of the McLean Hospital Committee. His optimism about the future of the hospital is based in part on his confidence that the support of the Trustees will continue in the future as it has in the past.

FRANCIS DE MARNEFFE, M.D.
*Director of Hospital Affairs**

*Appointed Director, McLean Hospital, January 8, 1963.

Report of the Psychiatrist in Chief

A SIGNIFICANT reorganization of the McLean Hospital was the major event of the year; it was the result of many changes during the past few years.

A review of the years 1955 through 1962, made early last year, highlighted a number of significant changes in the care of patients in the hospital. The total number of patients treated each year increased from 480 to 573, and the patients received progressively more in the way of treatment. Intensive psychotherapy and group therapy were made available to a considerably increasing number of patients, in the face of a general shortage of qualified mental health personnel. The age of patients treated changed; there was a great increase in the number of adolescent and young adult patients, fewer elderly patients, and, particularly, fewer chronically schizophrenic patients. A number of the latter group were discharged to the community during the recent years, apparently partly as a result of the treatment program. The percentage of voluntary patients rose from 51 to 88. While no gross change in the median duration of hospital stay occurred, it remained shorter than often suspected—about seven weeks; there was an increase in the number of patients staying three to six months and a decrease in the number of those staying less than one month.

These changes paralleled others less easy to summarize in figures—daily visiting hours, the occasional admission of a newborn child when its mother's condition indicated, ward telephones for patients' use, arrangements for outside psychotherapists' continuing treatment in association with the hospital staff psychiatrist, the development of Day Care and other arrangements to ease transition into the community, and an expanded and intensive educational program—are various signs of an increasingly active teaching and therapeutic enterprise. Total grants, all supporting the biological research laboratory, were $51,000 in 1954. In 1962 grants totaled $854,000 and were distributed among six departments.

A portion of the increased scientific activity was contributed by the social and behavioral sciences at the hospital, involving both pure and applied research collateral to the already strong and effective biological scientific laboratories. The behavioral areas, however, have not yet achieved the support of a major position about which research effort can crystallize.

It was in recognition of this problem in the symmetrical development of the hospital program, and as a result of the growth in the hospital, that the duties of the Psychiatrist in Chief were divided in the course of the year. Dr. Francis de Marneffe assumed the general responsibilities for the direction of the hospital, as Director of Hospital Affairs, bringing to the position experience as a psychiatrist at McLean and at the General Hospital, and a valuable combination of vigor, vision and discipline. A second position has been created for a Director of Clinical Psychiatry. When this position is filled, the Psychiatrist in Chief will be freed to develop and strengthen the research effort in the behavioral sciences and in clinical psychiatry. The program promises, as it comes into effect, to permit the same type of systematic and serious development of the psychological sciences in the clinical area which is characteristic of medical research as a whole.

The year featured a number of significant changes in the clinical psychiatric program, all tending to strengthen and explore areas of personal development and the skills of professional intervention. The increase in the proportion of adolescent and young adult patients has continued, and has brought with it urgent educational needs. Upon this basis, a high school was established at Arlington House to provide systematic and fully acceptable high school education for those of our patients who are unable for a number of reasons to pursue their studies in the community schools with as much advantage as in a specially designed program. The program has grown during the year and, at the end of the fiscal year, 18 students were enrolled. Many problems involving clinical, educational, or research questions have been met and in many cases at least partially solved. While it goes without saying that a child hospitalized for a year or longer will profit from continuing his education and being able to avoid missing at least part of his school work appropriate for that year, the implications for the program are considerably broader than this special patient service. In many ways, a specialized psychiatric hospital functions more like a boarding school than like a hospital; most patients should not be in bed, should care for their own belongings, and benefit from a relatively high structured program of varied activities along with their specifically psychiatric treatment. The time scales of educational effort and much of psychotherapy and milieu therapy are relatively similar in order of magnitude.

The school focuses these characteristics of the hospital program.

Few activities dramatize the fact more conclusively that practical planning for the discharge of hospital patients starts at the time of their admission. It is possible that the school may come to serve as a training ground for the teachers of emotionally disabled children who will be needed under the program recently developed by the State. The combination of the advice of an advisory committee and a grant from the Medical Foundation will permit Dr. Helen Kenney, who has assumed the central responsibility for organizing the school, and Dr. Francis de Marneffe to pursue a study of a number of the special problems encountered in the education of the emotionally handicapped adolescent. The need for an educational program for the numerous patient-students of college level is as great as that of the high school students and full consideration of the expansion of the school is a next step for the hospital. Both programs offer the possibility of studying a significant group of student drop-outs who are possible losses from the nation's highly educated manpower pool.

The development of family care for patients able to live outside of the hospital successfully, but needing the support of group or family living was increasingly needed; and during the year 16 patients were located in homes as a result of persistent and skillful efforts of the Department of Social Work. The program is an area of increasing hospital-community collaboration which makes an unspectacular but extraordinary difference in the day to day planning for the care of patients and gives the hospital and the patients a considerably greater range of practicable routes out of the hospital. Social Group Work, under the leadership of Miss Jo Ann Glotfelty, has also grown to play a major role in the meaningful structuring of the adolescent and young adult patient's activity. The special skills now regularly taught as part of the subprofession of Social Group Work find an immediate place in the psychiatric hospital were aimless or contrived ways of "passing the time" may result in discouragement and disorganization of the patient's effort at recovery. The development of a successful basketball team with an extramural schedule was a notable result of the effective efforts of a group of nurses and aides.

The development of all of the hospital's programs in using the milieu as a treatment highlights the great need for more knowledge of the interrelation of the social environment with clinical problems. Dr. Eldred and Dr. Bell are heading a project to analyze ward interaction systematically; this represents a reaffirmation of the hospital's tradition

of research in clinical areas. Leadership means studying new and difficult areas where the development of methods and concepts must occupy a larger place than in more developed areas of research. A corollary to such research is the need for the development of better techniques of handling clinically pertinent information storage and retrieval, and a modern and accurate way of formulating the old and universally unsolved problems of clinical records in psychiatric hospitals. The sustained effort of the whole clinical staff under the leadership of Dr. Robinson brought about a considerable improvement in the techniques of handling clinical records and brought the committee to a position where analysis of the information problem is possible.

While a fire in the Women's Occupational Therapy building served as a stimulus to some physical reorganization of the hospital, the many physical improvements represent more of a continuation of a program of several years' duration. In the past few years all but one of the patient areas has been modernized and renovated, with improved electric wiring and lighting as a major result; work on the last patient area was started this year. The wiring of the whole hospital has now been surveyed, and, where necessary, modernized, with the installation of emergency lights and improved fire alarm systems. Regular fire drills were instituted during the year. The grounds remain a high value to everyone, and the new Rehabilitation Center under construction, containing its promise of an expanded service to the community, fits into the general plan of the hospital easily and naturally.

Mr. Henry Langevin became the Administrator of the hospital, replacing Mr. Joseph Prekup, whose years of service to the hospital contributed to its recent development. Mr. Langevin, a graduate of the McLean Hospital School of Nursing and of Boston University and Columbia University, received much of his administrative education at McLean with Mr. Prekup and is well suited for the responsibilities he is undertaking.

The informed support and guidance of the Trustees were an integral part of the development of the hospital program; they have always helped to keep the work of the staff pointed toward leadership and toward the future.

ALFRED H. STANTON, M.D.

Report of the Administrator

THE operation of McLean Hospital during the past fiscal year was characterized primarily by a basic change in the administrative organization of the hospital; another rather large financial deficit; the strengthening of numerous hospital departments; and by continuing efforts to maintain and upgrade the physical plant.

In May 1962 Mr. Joseph T. Prekup resigned as Administrator to accept the position of Associate Director of the Maricopa County General Hospital in Phoenix, Arizona. The many friends Mr. Prekup made during his 15 years at McLean Hospital—both staff and patients—wish him well in his new venture into general hospital administration.

On July 1 the new administrator was appointed and assumed responsibility for the day to day operations of the hospital. Mr. Henry H. Harvey was appointed Assistant Administrator and Miss Willa F. Pasho was promoted from Executive Assistant to Administrative Assistant. Mr. Harvey graduated from the program in Hospital Administration at Cornell University and, prior to his appointment at McLean Hospital, served as Executive Director of the Hospital Council of Lackawanna County, Scranton, Pennsylvania.

Groundbreaking ceremonies for the construction of the Rehabilitation Center were held on May 15, 1962. The budgeted cost of this building is approximately $1,004,000 of which $384,000 has been approved for Hill-Burton participation. In addition to the 22,000 square feet originally planned, the scope of the work has been increased to include a partial basement of 4,200 square feet. This additional space will be used primarily to expand the facilities of the Occupational Therapy area. It is anticipated that the building will be ready for occupancy by next May.

A continued low patient census during the 1960-1961 fiscal year necessitated a conservative approach in planning the 1961-1962 budget. Based on an average daily census of 195 patients, a deficit of $181,000 was projected. This budget included the re-establishment of the much needed positions in the Maintenance Department which had been eliminated the previous year, and the establishment of additional positions which were considered essential for the expansion of hospital programs. However, no provision was made in the budget for an Improvement and Alterations Fund.

The 1962 operating deficit of $136,000 was somewhat less than the

budgeted deficit and was achieved with an average daily census of 207 patients per day. An increase in net operating income of $202,000 over the budget estimate was due primarily to the increase in patient census but also included expansion of the Day Care Program and the establishment of the Night Care Program. The total deductions from income of $370,200 represented 11% of total patient income which was only 1% over budget and quite similar to the last fiscal year.

Total expenses of $3,314,000 represented an increase of 5.1% over budget and 9% over the last fiscal year. Salaries and wages represented 67.4% of total expense, compared with the budget estimate of 71.1%. An increase in nursing salary expense of 10.7% over budget offset a reduction in other salaries of 8%. The increase in nursing expense was due primarily to unfilled positions requiring overtime, departmental turn-over, and an increase in the amount of special nursing provided to patients. During the year the Nursing Department expended $152,000 for overtime which represented 78% of all overtime. Of the total expenditure for nursing overtime $40,000 was due to the payment of time and a half for overtime, which resulted in a net loss of $13,000 in the special nursing account. To remedy this situation during the next fiscal year special nursing will be charged at average cost rather than at registry rates. The 8% decrease in other salaries and wages was due primarily to unfilled positions and personnel turnover. All other hospital expenses increased 19% over budget and 15% over the last fiscal year. The 3% increase of $13,000 in supply expenses was due to the higher patient census, while the 8% increase of $21,000 in outside services was the result of the marked increase in expense for personnel advertisements and the use of outside manpower services, and increased use of AC power.

In the last few years there has been a progressive increase in accounts receivable. Since 1958 gross income from patients has increased 34% while accounts receivable, less reserve, have increased 152%. Because of the increase in size and number of hospital accounts and the need for more adequate financial information concerning patients, a credit and collection division of the Accounting Department was established in June with the appointment of Mr. Francis X. Norton to the position of Supervisor of Patient Accounts.

Even though there was no provision in the budget for an Improvements and Alterations Fund, during the course of the year $144,000 was committed for plant improvement and renovations. Because of a

serious electrical fire in the Women's Occupational Therapy Building, $133,000 was committed for repair of the hospital's electrical distribution system. The amount of $86,000 which was received from the insurance loss on the building was applied to this total expenditure. With the exception of Bowditch and East House I which were completely rewired, this expenditure has done little to improve the lighting in patient areas but has eliminated fire hazards which had existed throughout the hospital. The partial renovation of Bowditch at a cost of $65,000 has begun and will be completed in a few months.

The installation of the AC Primary Switchgear which was started in 1960 is nearing completion. The work was interrupted due to duct line relocation as a result of the construction of the Rehabilitation Center. The completion of this project will provide the hospital with a modern underground source of AC power from the Town of Belmont and is the first phase of the eventual conversion of all electrical current from DC to AC.

Other renovation projects included installation of emergency lighting and fire alarm systems in patient areas, construction and renovation of physicians' offices, partial rewiring and renovation of the second floor of the Administration Building, and the installation of a new fence in the East House yard. In addition to the projects mentioned above the Maintenance Department completed extensive repairs, installations and painting of most ward food service areas—specifically kitchen cabinet enclosures, dumbwaiter shafts and basement service rooms; continued the program of installing showers in patient areas; completed exterior painting and brick work silicone applications of Ledge Cottage, North Cottage and Proctor House; and interior painting of the third floor of the Women Nurses Home. Numerous roof areas were repaired and old downspouts replaced; all fire extinguishers were inspected and recharged, and new CO_2 units were added to all ward kitchens. A total of 5,600 requisitions were processed during the year which represented a slight decrease from last year. In addition, 127 emergency calls were handled during the evening and night hours. Because of the need for additional engineering service the position of Engineer Trainee has been established in conjunction with the Northeastern University Cooperative Program, and has been highly successful.

The age and condition of much of the equipment in the power house has become an area of great concern. Mr. John Blanchard, a highly qualified stationary engineer, has been appointed to the position

of Assistant Chief Engineer. In addition, the establishment of the position of Utility Engineer has greatly improved the scheduling of preventive maintenance as well as upgrading the plant in general by applying remedial action to areas that have been in dire need of repair. It has become quite evident that the above actions have had a positive effect on fuel savings and reduction in the number of equipment breakdowns. Nevertheless much of the major plant equipment has gone well beyond the life expectancy normally assigned to this type of equipment. There is no doubt that within a few years capital funds will have to be expended specifically for replacement of fire tube boilers.

The Department of Grounds and Transportation functioned at a high level of efficiency during the fiscal year. In several areas throughout the hospital the grounds were fertilized, loamed and reseeded. In addition to the continued trimming of trees and removal of dead branches, a large percentage of diseased elm trees have been cut down and burned. The staff parking area adjacent to the Administration Building has been extended to include an additional six parking spaces and the service road was resurfaced from the garage to the power house. White lines were painted on all main roads and individual spaces in the parking areas were marked off for more uniform parking. After many years all roads on the hospital grounds have been given names and appropriate street signs erected. During the year the hospital vehicles logged approximately 52,000 miles. Even though income from chauffeur service has continued to decline, a total of 885 hours of recreational drives have been enjoyed by many of the patients. To effect more efficient sanding and snow removal the 1937 Brockaway dump truck was replaced with a 1956 Mack truck.

Patients and hospital volunteers have continued to give freely of their time and assistance in caring for the gardens and greenhouse. The flower garden has provided an abundance of flowers for social functions, to brighten the patient halls and decorate the chapel for church services. The vegetable garden has continued to provide several hundred bushels of fresh vegetables for use in the Dietary Department. The hospital notes with regret the retirement of Mr. Sylvestro Bonfiglio, who since 1913 has been a valued groundsman and gardener.

The ongoing program of improving the facilities and equipment of the Dietary Department has continued during the past year. The pot room and disposal areas were renovated and the wooden dumb-waiter

cars in North Belknap and Bowditch were replaced with stainless steel. Modern dishwashers and new refrigerators were installed on two patient units. Purchase of a power-driven heated food cart has made it possible to deliver hot food to the great majority of the patient halls, even though the equipment on some patient units for the serving of food remains inadequate. Use of the power driven truck has improved the morale and efficiency of the porter group and has made it possible to use the services of older men for this function. A number of patients were involved in working in the department during the year doing clerical work, preparing food and handling food trucks. These patients were influential in helping to develop employee attitudes in departments not relating directly to patient care and have been instrumental in interpreting the department to other patients. In addition, the inauguration of nursing, dietary and housekeeping conferences and the attendance of dietary personnel at patient meetings has improved communications and has made many patients aware of the problems inherent in a widely decentralized patient food service operation.

The use of the cycle menu in the cafeteria during the past year has made it possible to make more rapid strides in translating standard recipes to our particular needs. Overcrowding remains a problem and the steam table facilities are inadequate to handle a more selective menu. It is anticipated, however, that in the next fiscal year the cafeteria will be expanded and modifications will be made in the serving line. These changes, with a more selective menu, should increase the volume and consequently reduce the present net deficit of approximately $3,000.

As a result of the East Occupational Therapy fire, the Coffee Shop was closed for approximately 10 weeks. During this period the dietary staff did an excellent job in continuing to service both patients and employees in temporary facilities set up in the cafeteria and adjacent areas. Since the Coffee Shop reopened it has continued to be an important area of patient social activities.

After many years of faithful service Mrs. Mary T. Girard retired as Executive Housekeeper. Following Mrs. Girard's retirement Mr. Howard Smith, Laundry Manager, was promoted to the position of Director of Housekeeping and Laundry Services. In addition, the position of Assistant to the Executive Housekeeper was eliminated and two housekeeping supervisor positions were established. It is anticipated that the establishment of these two housekeeping positions will

upgrade the quality of housekeeping services throughout the hospital and provide a closer working relationship between the nursing, dietary and housekeeping departments.

The laundry continued to operate at a high level of efficiency with a minimal amount of personnel turnover. The combination washer-extractor purchased in the last fiscal year will amortize itself in a short period of time. In addition plans are underway to install new pressing equipment.

During the past year Mr. Alexander Armour, Director of Purchasing, has been active as a member of the Purchasing Agents Committee of the Hospital Bureau and as a member of the Hospital Purchasing Service of the Greater Boston Hospital Council. His membership on the Advisory Council to the Food Management Course at the University of Massachusetts was an important factor in the selection of McLean Hospital as the first institution in which a survey was conducted involving cost accounting of the hospital food service operations in order to develop a procedure for determining inefficiencies in food service operation and recommendations for improvement. This survey resulted in the development of a more accurate method of menu food costing and improved controls of perishable food commodities. During the year the coffee shop stock inventory was absorbed into the perpetual inventory system. The requisitioning procedure for inventory supplies was greatly simplified by the development of the preprinted requisition form for three supply categories. The result of this change has been a significant saving of time to all hospital using departments.

The Standards Committee, in conjunction with the medical and nursing staffs, was instrumental in the development of a geriatric chair with safety and comfort features which could not be found on any chair previously manufactured. The Equipment Purchase Committee met at regular intervals during the year and allocated equipment funds to the various hospital departments based on established priority criteria. During the year approximately $25,000 was spent for equipment. In addition to the items mentioned elsewhere, most of the funds were used for office and housekeeping equipment, the replacement of furnishings in patient areas, and the furnishings necessary to set up additional double rooms in selected patient units.

During the past year the Medical Records Librarian has continued to function as department head for both the Medical Records Department and the Secretarial Service. Because of the increased activity and

expansion of both areas two supervisory positions were established. Mrs. Eleanor Lukes was promoted to the position of Secretarial Service Supervisor and Miss Delila Mockapetris was employed as supervisor of the Medical Records Department.

In preparation for the survey by the Joint Commission on Accreditation of Hospitals the Medical Records Committee conducted continuous reviews, including special comprehensive reviews which require the services of all members of the hospital staff. During this period the Medical Records Department burden was quite heavy but the department personnel functioned very well under extreme pressure. Upon the recommendation of the Medical Records Committee a pilot study to decentralize medical records to the patient units was conducted. This study has resulted in the establishment of a program to eventually decentralize medical records on all patient units.

As a result of the East Occupational Therapy fire, occupational therapy activities housed in the building were transferred and integrated with other activities in the West Occupational Therapy area. This transfer resulted in the consolidation of all activity therapies in one building. The consolidation has been well received by staff and patients, and has made it possible for patients to participate in a greater variety of activities. After eight years of faithful service Mrs. Ada L. Roth resigned as Chief Activity Therapist. Mrs. Roth joined the hospital staff in 1954 as a recreational therapist, was promoted to Supervisor of Recreational Therapy in 1956 and was appointed department head for the consolidated Activity Therapies Department in 1960.

Mr. John E. Lowe was appointed Director of Personnel, replacing Miss Vera Kilstein who had resigned earlier in the year. Prior to his appointment at McLean Hospital, Mr. Lowe has had many years of personnel experience with major industrial companies. The department experienced some difficulty in filling job vacancies throughout the year but through increased newspaper advertising serious shortages of personnel were avoided. However, there continued to be a chronic shortage of housemen, housemaids, dietary porters, dietary aides and psychiatric aides. During the year 382 regular personnel and 36 vacation relief personnel were hired—47.6% of the 1,494 people interviewed. Although 5.4% fewer people were seen than in the previous year, the number employed increased almost 10%. This increase was accounted for in part by a change in the employment advertising format which provided prospective applicants with more information about job openings. Re-

sponsibility for employee living quarters was centralized in the Personnel Department and a key tag numbering system went into effect on all hospital keys which has materially improved internal key control. During the year three employees retired on pension, bringing the total number of pensioners to 56 at the end of the fiscal year.

On May 29, 1962 the service pin award tea was held and 40 employees were honored. A 40-year pin was awarded to Miss Ruth MacLeod of the Patients' Receiving Department. 30-year pins were awarded to Mr. Dominic Caruso, Dietary Department; Miss Constance Doliber, Activity Therapy Department; Mr. Jonathon L. Moors, Maintenance Department; and Mrs. Elizabeth M. Poirier, Nursing Department. 20-year pins were awarded to Mr. Joseph Gatto, Grounds Department; Mrs. Audrey S. Hurley, Miss Anna M. Meritte, Mrs. Audrey R. Miller and Mrs. Susie M. Thomas of the Nursing Department.

During the coming year personnel programs such as merit rating, exit interviews, employee orientation and an employee handbook will be well underway.

Meetings of the Safety Committee were held on a bi-weekly basis. Even though major emphasis was on a hospital-wide fire program, the committee also involved themselves with the investigation and correction of a variety of safety hazards. A Safety Education subcommittee was established to work with personnel in developing good safety habits. Revised fire rules were posted in all hospital areas and scheduled fire drills were held in all buildings under the direction and supervision of Mr. John Larson, Chief of Plant and Operations. Because of this increased awareness of fire safety and fire education the hospital sponsored a one-day fire control institute presented by Lt. Robert McGrath, nationally known authority on fire safety and fire prevention education. This institute was well attended by hospital personnel and by invited guests from other hospitals, the Town of Belmont and the surrounding communities.

The hospital disaster plan was completed and rehearsed by key personnel and the Belmont town officials on two occasions. Formal rehearsals of this plan will be held at least twice a year.

Notwithstanding the disruptive effects of basic organizational changes, much has been accomplished this past year. However, much remains to be done. The most important consideration is to find ways of controlling the increasing costs of hospitalization without jeopardiz-

ing the quality of patient care or limiting funds for plant repair or improvements.

I wish to express my appreciation to all department heads and personnel who through their loyalty and untiring efforts have met the varied demands of providing service to McLean Hospital and to all the patients the hospital is privileged to serve.

HENRY J. LANGEVIN

McLean Hospital

BALANCE SHEET

SEPTEMBER 30, 1962

ASSETS:		
Cash		$98,832.88
Accounts Receivable—Patients	780,517.30	
Less: Allowance for Doubtful Accounts	45,418.60	735,098.70
Accounts Receivable—Other		6,359.39
Prepaid Assets		3,396.59
Inventories:		
Dietary	3,362.19	
Maintenance	23,834.15	
Pharmacy	11,174.48	
Sewing Room	4,682.12	
Coffee Shop	504.57	
Storeroom	17,905.36	
Total Inventories		61,462.87
TOTAL ASSETS		$905,150.43
LIABILITIES:		
Accounts Payable	2,329.51	
Reserve for Rate Reduction	7,781.03	
Reserve for Special Nursing	5,228.01	
Fiduciary Exchange Accounts	65,063.87	
Reserve for Improvements and Alterations	136,932.54	
Total Liabilities		217,334.96
TREASURER'S EQUITY:		
Treasurer's Equity, October 1961	656,628.91	
Add: Cash from Treasurer	700,000.00	
	1,356,628.91	
Less: Operating Deficit $177,362.00		
Research Expenses 491,451.44	668,813.44	
Treasurer's Equity September 30, 1962		687,815.47
Total Liabilities and Treasurer's Equity		905,150.43

McLean Hospital

CUMULATIVE OPERATING STATEMENT

	Current Year 10/2/61 9/30/62	Previous Year 10/3/60 10/1/61
Patient Days	75,222	70,054
Average Daily Census	207	190
Percentage of Occupancy (Cap. 278 Beds)	74	71
Income:		
Room and Care	$2,891,727.51	$2,692,700.33
Day Care	58,611.50	30,444.50
Night Care	15,632.00	-0-
Other Patient Income	371,248.42	324,968.37
Other Non-Patient Income	169,782.09	188,493.62
Total Operating Income	$3,507,001.52	$3,236,606.82
Deductions from Income:		
Free Service—Inpatients	274,500.26	259,575.42
Free Service—Day Care	6,581.25	-0-
Free Service—Night Care	23.00	-0-
Free Service—Special Nursing	7,999.94	6,845.34
Courtesy Allowance	25,087.60	23,748.00
Provision For Doubtful Accounts	45,999.38	39,999.00
Provision For Rate Reductions	9,999.97	6,994.00
Total Deduction From Income	$370,191.40	$337,161.76
Net Operating Income:	$3,136,810.12	$2,899,445.06
Expenses:		
Salaries—Nursing	$1,000,688.94	$924,743.24
Salaries—Other	1,234,561.02	1,164,763.76
Supplies	431,153.84	420,979.01
Equipment and Improvement—Alteration	171,171.65	91,974.90
Outside Services	284,923.01	247,199.08
Other Expenses	191,673.66	176,259.58
Total Expenses	$3,314,172.12	$3,025,919.57
Net Operating Deficit:	(177,362.00)	(126,474.51)
Treasurer's Income:	57,698.57	56,310.98
Less: Treasurer's Expenses	16,840.45	15,646.12
Net Treasurer's Income	$40,858.12	$40,664.86
NET DEFICIT:	($136,503.88)	($85,809.65)

Report of the Clinical Service

EQUIPPED with outstanding facilities and staff, the Clinical Service of the McLean Hospital has given extraordinary service to its patients during the past year. At the same time it is looking to the future in extensive training programs for professionals who are new to psychiatry and in forward looking research.

A report of the clinical service may be read by persons with varied interests. Traditionalists are alert as to whether the inheritance of the past is being preserved, and oldtimers, revisiting, find the clinical essentials developed long ago are still here. Patients are very individually treated, live in small groups and in houses that are spacious. The staff is friendly and very many people have an affection for the hospital. But there is now a great new hum in the activity and many new customs of treatment.

The lay public inquires if the hospital has censurable defects and keeps up to "standards". The Joint Commission on Accreditation of Hospitals will inspect the hospital in October 1962 for accreditation.

Often censured in hospitals are excesses of mechanical restraints, overcrowding, poor medicine, diet or legal procedures: and all these things are controlled.

However, the hospital has gone ahead of tradition and public expectations and developed its own standards of care not lightly called extraordinary. A very large staff works hard, often on lines publicly uninspected (not entirely avoiding complaints of relatives and patients) but in real creative care and therapy. Grossly seen here is now one of the largest intensive psychotherapy programs for hospitalized patients as well as one of the largest intensive treatment centers for adolescent patients in the country. Simultaneously with psychotherapy, the patients are also treated by general psychiatrists and the nursing and activity departments. Rapid discharge does not constitute a fixed ideal if a period of hospital therapy is indicated, but rehabilitation into the community is pushed. The day and night care programs are continuing to develop to provide partial hospital care for persons who no longer need full-time care, or persons in the community who only need part-time in the hospital.

The report of the Joint Commission for Mental Illness and Health has noticed that in the United States there are many large hospitals

for the care of the mentally ill where persons are lost in the society and society loses sight of the person, and so has recommended small hospitals or smaller units. Thus we could feel McLean is a fortunate size. But even so we inquire more microscopically into those social forms which foster and perpetuate mental illness and try to minimize them in our own structure, as in bureaucracy, inactivity, isolation, idleness, loss of responsibility and fun, routinization, relegation into types and too rigid or lax expectations. We do continual staff work with each group and patient to avoid these social interactions which prolong illness and attempt instead to create maturational influence. Psychiatry being young there are differences of scientific view and prejudice, and diversity of interest in the team members—the general psychiatrist, psychotherapist, nurse, social worker, social group worker, activity worker, and job supervisor—to say nothing of the patient and his family. The patient's needs are obscured by denial, mazes of motives or even by rapid growth and changes of need. Hence constant discussion and planning in the team are needed to bring about the responsive action systems possible in the small private hospital.

The modern psychiatric patient has been and is continuing to change in symptom-picture. Rather than the classical neurotic and psychotic pictures, we often deal with patients who have mixed, indefinite and shifting clinical manifestations; with impulsive behavior, often little insight, and whose sometimes excellent social façade may center around immaturity. These character changes are not so much reflected in the lists of diagnoses which recently remain much the same, but they mean that the hospital must essay a thorough milieu and psychotherapeutic treatment to effect character change. These difficulties particularly occur with younger patients (one-third of the patients are under 25). The ideal of thorough instead of symptomatic treatment has led to a slight increase in the number of patients staying for three months to a year for intensive treatment, to the increase in the number of day care patients and to the majority of patients who after discharge continue their involvement in psychotherapy. Readmissions have increased slightly due to the fact that rehabilitation into the community is pushed as soon as feasible, and also because many doctors now use McLean as a second line of defense to support their treatment of patients who in the past would have been chronic in-patients. This year the admission rate to the hospital has increased from 329 to an annual 353, and the average daily census has been increased from 195 to 207. This in-

crease makes maximum use of the treatment facilities and somewhat alleviates the census deficit of the past year.

At the end of the year there were 69 patients in intensive psychotherapy as compared with 59 the year before; and this means three hours a week for each patient for many months to years. Another 40 are in therapy once a week, and 89 in group therapy with physicians. A calculated 100 patients are remaining in therapy after discharge. The physician hours for therapy are provided by the attending psychiatrists, by staff physicians, and by the residents (under senior supervision). This work is separate from that of the general psychiatrists who see patients daily about practical matters and general planning.

Nursing care costs almost one-half of the salaries and about one-third of the cost of hospitalization and is one of the most necessary elements in the milieu: nursing care is needed, of course, around the clock and on the average requires a nurse or aide per five patients. There is an architectural problem in that our halls for patients house only an average of 18 patients whereas they might well clinically be as large as 24 patients, thus reducing the number of nurses required per patient. As it is, the small groups afford a pleasant and less crowded atmosphere. Clinical and educational nursing is reported elsewhere, but it must be credited that the physician-nurse teams on the halls are in elaborate communication and effort. They interact with the patients' normal and pathological psychic life, prevent regression, and enable maturation to occur. The life on the halls is still too dull but it is very dynamic compared to a few years ago so that few patients are allowed to settle into the comfortable isolation of mental illness.

It has gradually been possible to change the mores of the halls so that patients and staff though in some natural schism enter things more actively together. Patients are no longer in such a passive position under the traditional medical rule and are not only more free as to behavior but also to initiate contributions towards their own care. The use of the Hall Meeting by patients has now become entrenched and has on each hall a separate form. Most of these hall meetings explore the work and entertainment possibilities arising on each hall. References to helpfulness or difficulties in behavior on the part of both patients and staff are often aired; but group supervision of individual illness-behavior has with exceptions not worked well.

Following the fire in the East Occupational Therapy Building, the department of Activity Therapies was placed into one grouping in the

large gymnasium and occupational rooms. The activities of this department comprise occupational therapy, recreational therapy, studio, music, manual arts and creative arts. Daily conferences with physicians have brought more understanding and stimulus for patient activity. There is a large staff of 15 workers. The library has remained a patient reading and work center, appreciated partly because it has retained (for now its last year) the most charming rooms in the hospital. The patients' publication, *Around and About,* is published from there. Services in the chapel with its superb stained glass windows have continued. The departure of Mrs. Ada Roth, the able activities department head, was regretted.

The patients' school is an important effort to provide for the educational needs of about 18 patients who need to be in the hospital but also can be earning credits in this branch of the Belmont High School on the McLean grounds.

There are now three social group workers who run various activities especially the Young Adult Lounge and the male work group. This form of approach to activity should increase since it provides the spirit and leadership of the group which successfully involve and interest especially the younger patients. But even patients in their eighties enjoy being together.

The Work Program is one of the largest activity efforts, and twice a year certificates are awarded to patients who have volunteered to do regular part-time work for hospital departments. There are about 40 working at one time. Department heads assign work to patients which is of real value to the hospital.

Training programs in psychiatry have a large place in this teaching hospital. Those directly connected with the clinical work include psychiatric residency, the School of Nursing, Harvard medical students, social work, psychology, and psychiatric aides. The psychiatric residents, whose training is accredited for three years, have increased to 19, with 9 fellows. These physicians are showing themselves to be exceptionally talented, and their program has been described in these reports. They now have an affiliation to broaden their training in a third year at the Massachusetts General Hospital (which is a joint training program); at the Beth Israel Hospital; and the Boston Veterans Administration Hospital (for neurology, one-half year). The number and quality of resident applicants continues to improve as young physicians are attracted to the expanded opportunities for train-

ing and supervision. As a part of the educational and research effort the Medical Library continues to expand explosively.

The research project "Social and Individual Systems in Schizophrenia" conducted by Drs. Stanley H. Eldred, Norman W. Bell, and Lewis J. Sherman has continued its second year of work and they are doing qualitative and computor analysis of the materials previously collected. Approximately fifteen working papers have been written. New research proposals pertaining to acute schizophrenia were developed. Dr. Merton J. Kahne published an article on "Position"—an analysis of the interplay between role-sets and personality function in the mental hospital—which has helped to refocus attention on the vitality of the individual as well as healthy and unhealthy group-person interactions. Dr. Maria Lorenz has continued her work on the language process in mental illness.

A number of departments having important clinical contribution submit separate annual reports but a brief word will point out importance to the clinical service. We are very conscious of living in proximity to the Research Laboratory, whose fundamental biological research work has made valuable contributions over the years and views the same organisms as the clinician but from a different point of view.

Internal medicine and medical specialty needs that will benefit the patients are supplied by admission and routine physical examinations. Medical needs of patients were met by appropriate examinations and procedures conducted by psychiatrists and medical consultants, and by the use of our Laboratory and Pharmacy. Physiological treatment in the form of electric shock was given to only five patients last year but with benefit; and tranquilizers continue to be widely used.

The presence of the Social Science Department continues to enrich our thinking about the milieu of the hospital, about family relationships, as well as staff relationships. Social workers are so immediately in the clinical melee that neither physicians, patients nor their families could do without them. The psychology department frequently comes in with such illuminating observations of patients' thinking that the clinical effects are very helpful.

The Volunteer Program is reported elsewhere but from the clinical point of view the invasion of community volunteers has livened and brightened the hospital as well as helping with the therapeutic effort. Most of them prefer to work with patients.

In a separate report the McLean Hospital Auxiliary will also be

seen to have clinical effect which will be growing. It now supports the training of one student nurse, mans the hospital store, has made specific purpose bequests, and has conducted a Strawberry Festival attended by the public and the patients.

Changes in the Staff included the advancement of Dr. Francis L. A. de Marneffe to the position of Director of Hospital Affairs. His interest and work in this position bring heavy clinical benefits. New to the psychiatric staff are Dr. Arnold H. Modell, Dr. Suzanne T. van Amerongen, Dr. Paul R. Dinsmore, Dr. Peter B. Jenney and Dr. A. Scott Anderson. Dr. Alan A. Stone has become Director of Resident Education.

The clinical workers of the McLean Hospital are continuously grateful to all the other persons working in the departments of administration who sustain the structure of the hospital both internally and in relationship with the general community. The clinical service is ever mindful of the thoughfulness of the Board of Trustees, especially the McLean Committee, whose supervision and appointments have enabled our clinical work to become increasingly effective.

PAUL M. HOWARD, M.D.
Associate Psychiatrist in Chief

Patient Population 1961-1962

A HOSPITAL is a dynamic entity to which patients are continually being added and subtracted. The accompanying tables halt the flow and present some characteristics of the patient population served by the McLean Hospital during the year. Table I presents a picture of the population at the beginning of the year, the admissions, the discharges, the year-end population, and the changes during the year. Table II concerns the previous hospital experience of the admissions, and Table III examines discharges.

This capsule picture of a year in the life of a hospital contains a great deal of information. A few items can be commented upon here:

1. The hospital operates at a high level of activity. A total of 580 patients were under hospital care during the year, exclusive of a sizable number discharged but receiving therapy through the hospital. It would appear that over a period of time an increased number of admissions is required to maintain a constant hospital population.
2. Despite a considerable turnover, the hospital population remains remarkably stable. The proportion of males and females remains constant while the age and diagnostic composition show small changes.
3. The changes in the age composition are not great, but the steady increase in younger patients should be noted. The group under 20 increased by 4 per cent while all groups over 61 years of age decreased.
4. When admissions are separated according to previous hospital experience, it appears that these groups differ. First admissions to any mental hospital outnumber the other groups and tend to be distributed over a variety of age and diagnostic groups. Those with previous hospital experience other that at McLean contain a much higher proportion of males; one third of them come directly from other hospitals, one quarter of them are under 20 years of age, and they include a relatively high proportion of schizophrenics. Patients readmitted to McLean are somewhat older and more likely than the other group to come from home

and to have a diagnosis of affective reaction or psychoneurotic depressive reaction.

5. Interhospital movement is considerable with 10 per cent of admissions coming from other hospitals and 15 per cent of discharges going to other hospitals. This apparently reflects the specialized place McLean occupies in the total complex of services in this area.
6. Although few patients of a psychiatric hospital are adjudged to be recovered at discharge, over half of the discharges leave within three months of admission. Eighty-six per cent of discharges have been in the hospital less than a year.

NORMAN W. BELL, Ph.D.
Chief, Social Science Department

TABLE I — PATIENT POPULATION 1961

CHARACTERISTIC		Beginning of Year October 2, 1961				Admitted			
Total Number		In Hospital — 191 On Visit — 36		227				353	
SEX	Male	38%				40%			
	Female	62%				60%			
AGE		Male	Female	Total	% of Total	Male	Female	Total	% of Total
	Under 20	20	13	33	15	35	27	62	18
	21-30	16	27	43	19	37	31	68	19
	31-40	12	23	35	15	27	51	78	22
	41-50	7	13	20	9	15	49	64	18
	51-60	8	16	24	11	19	30	49	14
	61-70	10	18	28	12	5	14	19	5
	71-80	10	11	21	9	3	6	9	3
	81 and over	3	20	23	10	1	3	4	1
		86	141	227	100	142	211	353	100
DIAGNOSIS									
Schizophrenic		40	70	110	48	49	60	109	31
Psychoneurotic		6	13	19	8	23	34	57	16
Affective Reactions		15	13	28	12	19	32	51	14
Personality Disturbance		11	20	31	14	38	50	88	25
Involutional Reaction		0	3	3	1	3	10	13	4
Paranoid State		0	2	2	*	2	0	2	*
Adjustment Reaction		4	0	4	1	4	8	12	3
Acute Brain Syndrome		0	0	0	0	1	1	2	*
Chronic Brain Syndrome		10	19	29	13	3	12	15	4
Psychophysiological Reaction		0	0	0	0	0	3	3	*
Mental Deficiency		0	1	1	*	0	1	1	*
		86	141	227	100	142	211	353	100

*Less than 1%

-1962 BY SELECTED CHARACTERISTICS

Discharged				Remaining at End September 30, 1962				Change During Year			
		333		In Hospital — 216 On Visit — 31				In Hospital — +25 On Visit — — 5		+20	
40%				38%				0%			
60%				62%				0%			
Male	Female	Total	% of Total	Male	Female	Total	% of Total	Male	Female	Total	% of Total
27	22	49	15	28	18	46	19	+8	+5	+13	+4
30	39	69	21	23	19	42	17	+7	—8	+ 1	—2
30	45	75	22	9	29	38	15	—3	+6	+ 3	0
17	44	61	18	5	18	23	9	—2	+5	+ 3	0
16	26	42	13	11	20	31	13	+3	+4	+ 7	+2
5	14	19	6	10	18	28	11	0	0	0	—1
7	4	11	3	6	13	19	8	—4	+2	— 2	—1
2	5	7	2	2	18	20	8	—1	—2	— 3	—2
134	199	333	100	94	153	247	100	+8	+12	+20	0
36	64	100	30	45	67	112	45	+5	— 3	+ 2	—3
18	27	45	14	4	15	19	8	—2	+ 2	0	0
24	22	46	14	10	16	26	11	—5	+ 3	— 2	—1
32	48	80	24	19	20	39	16	+8	0	+ 8	+2
5	9	14	4	0	7	7	3	0	+ 4	+ 4	+2
0	1	1	*	1	3	4	2	+1	+ 1	+ 2	+1
12	11	23	7	3	4	7	3	—1	+ 4	+ 3	+2
1	1	2	*	0	0	0	0	0	0	0	0
6	14	20	6	12	20	32	13	+2	+ 1	+ 3	0
0	0	0	0	0	1	1	*	0	+ 1	+ 1	0
0	2	2	*	0	0	0	0	0	— 1	— 1	0
134	199	333	100	94	153	247	100	+8	+12	+20	0

TABLE II

ADMISSIONS 1961-1962

BY PREVIOUS HOSPITAL EXPERIENCE, SEX AND RELATED OTHER CHARACTERISTICS

	1st Any				*1st McLean*				*Read. McLean*				*Total*			
(A) SOURCE	M	F	T	%	M	F	T	%	M	F	T	%	M	F	T	%
Home	31	59	90	57	22	23	45	49	19	51	70	68	72	133	205	58
General Hospital	8	22	30	19	7	7	14	15	3	10	13	13	18	39	57	16
Psychiatric Hospital	0	0	0	0	13	14	27	30	6	3	9	9	19	17	36	10
Other	20	19	39	24	4	1	5	6	9	2	11	10	33	22	55	16
	59	100	159	100	46	45	91	100	37	66	103	100	142	211	353	100
(B) DIAGNOSIS																
Schizophrenic	18	18	36	23	18	19	37	41	13	23	36	35	49	60	109	31
Psychoneurotic	13	15	28	18	4	5	9	10	6	14	20	19	23	34	57	16
Affective Reaction	6	14	20	13	4	6	10	11	9	12	21	20	19	32	51	14
Personality Disturbance	14	24	38	24	15	11	26	29	9	15	24	23	38	50	88	25
Involutional Reaction	1	6	7	4	2	3	5	5	0	1	1	1	3	10	13	4
Paranoid Reaction	1	0	1	*	1	0	1	1	0	0	0	0	2	0	2	*
Adjustment Reaction	2	7	9	6	2	1	3	3	0	0	0	0	4	8	12	4
Acute Brain Syndrome	1	1	2	1	0	0	0	0	0	0	0	0	1	1	2	*
Chronic Brain Syndrome	3	11	14	9	0	0	0	0	0	1	1	1	3	12	15	4
Psychophysiological Reaction	0	3	3	2	0	0	0	0	0	0	0	0	0	3	3	1
Mental Deficiency	0	1	1	*	0	0	0	0	0	0	0	0	0	1	1	*
	59	100	159	100	46	45	91	100	37	66	103	100	142	211	353	100
(C) AGE																
Under 20	15	16	31	19	14	9	23	25	6	2	8	8	35	27	62	18
21 — 30	13	15	28	18	12	6	18	20	12	10	22	21	37	31	68	19
31 — 40	10	24	34	21	9	12	21	23	8	15	23	22	27	51	78	22
41 — 50	6	19	25	16	4	13	17	19	5	17	22	21	15	49	64	18
51 — 60	10	12	22	14	4	2	6	7	5	16	21	20	19	30	49	14
61 — 70	2	8	10	6	3	3	6	7	0	3	3	3	5	14	19	5
71 — 80	2	4	6	4	0	0	0	0	1	2	3	3	3	6	9	3
81 — up	1	2	3	2	0	0	0	0	0	1	1	1	1	3	4	1
	59	100	159	100	46	45	91	100	37	66	103	100	142	211	353	100

TABLE III

Discharges 1961-1962

By Sex and Selected other Characteristics

DESTINATION	Male	Female	Total	Per Cent
Home	95	159	254	76.
Psychiatric Hospital	24	27	51	15.
Nursing Home	1	2	3	1.
School	3	1	4	1.
Foster Home	0	1	1	*
Deceased	11	9	20	6.
	134	199	333	100.
CONDITION				
Recovered	2	1	3	1.
Much Improved	10	24	34	10.
Moderately Improved	49	81	130	39.
Slightly Improved	43	47	90	27.
Unimproved	19	37	56	17.
Deceased	11	9	20	6.
	134	199	333	100.
LENGTH OF STAY				
Less than 10 days	14	20	34	10.
11 — 30	22	49	71	21.
31 — 90	42	42	84	25.
91 — 365	41	58	99	30.
1 — 2 years	9	18	27	8.
2 — 5	4	6	10	3.
5 — Over	2	6	8	3.
	134	199	333	100.

Report of the Director of Internal Medicine

THE change in the pattern of patient care that began here half a decade ago has had several repercussions, none of them serious but all of them interesting. Patients are now allowed greater freedom than during the previous era: their comings and goings apparently account for the increased frequency of epidemics of mild viral respiratory and gastro-intestinal disease we now have. Because of the increase in freedom of patients and the added responsibility placed upon them for the management of their lives, it is more difficult to supervise their diet. In order to ensure an adequate vitamin intake continued attention is required. A study of the incidence of thiamine deficiency in the patients would be interesting. This is emphasized by the findings reported by Dr. E. C. Bell (Journal Psychology 45: 47, 1958); double-blind studies clearly showed that prolonged use of vitamins caused improvement in chronic schizophrenia. It should be noted in this connection that Pinel over 160 years ago reported inducing remissions in what today are called deteriorated schizophrenic patients by giving them a good diet and humane treatment. It must be pointed out that an attempt to measure the vitamin B_{12} content of the serum, conducted here by Dr. Victor Herbert of the Boston City Hospital, had to be abandoned because the drugs used in treating mental disorders interfere with the assay for the vitamin.

Dr. William Hall continues to make daily medical rounds. The current group of residents attends these rounds with a degree of regularity that is startlingly different from that of any previous group. It would be interesting to know why some young psychiatrists are more interested than others in the physical condition of their patients. It is the function of the hall administrator to coordinate all aspects of the patients' treatment and it is particularly important, therefore, that the medical and psychiatric treatment be well integrated. The care of the patients here is still fragmented to some extent. Dr. Paul Minton does the admission physical examinations and Dr. Roman DeSanctis does annual physical examinations. Discussions are currently under way to devise ways of providing continuity of medical care by the same physician.

Dr. Jacqueline Gauthier retired from the Employee's Clinic and her place was taken by Dr. Hershel Jick. The change in the character of the Hospital from a compact community, in or close to which almost all

employees lived, to one whose employees for the most part live away, has imposed new burdens on the Clinic. Employees are exposed to more infections than formerly. In addition the turn-over of employees is now very great. The planned reconstruction of the Employee's Clinic should alleviate some of the discomforts of working in it; the discomforts have been patiently borne by the Clinic Staff for some years.

The Pharmacy filled 25,649 prescriptions, 4,728 more prescriptions in 1962 than in the previous year; most of this increase was owing to an increase of 4,359 for in-patients. This increase is due in part to a lessening of the bias against the use of psycho-active drugs. (The bias against electroshock therapy is still unchanged). Mr. George Zager continues to bear the enormous load involved in the dispensing of the drugs, the maintenance of supplies on the halls, and the providing of information on new drugs with at least outward equanimity.

The X-Ray Department also showed a rise in work in 1962, the number of patients' X-Rays rising from 561 to 685 and for employees' X-Ray from 674 to 725. As in previous years, most of the roentgengrams were chest examinations, i.e., 901 of the total of 1,410. Mr. Herbert Davidson's standards of performance in handling difficult patients continue to evoke astonished admiration in those who encounter them for the first time.

The Clinical Laboratory continues to perform a number of tests remarkable for a hospital of this size and character. Mr. Joseph Giancola, the laboratory technician, manages the laboratory and continues to obtain blood from uncooperative patients and terrified staff members with his accustomed aplomb.

MARK D. ALTSCHULE, M. D.

Report of the Director of Research in Clinical Physiology

THE Laboratory of Clinical Physiology has concentrated its efforts on the pursuit of two problems: 1) learning more about the condition called "hyperaminochromia" (usually referred to by the vague and poorly defined term "schizophrenia" in clinical writings) and 2) learning more about pineal gland extracts.

The first problem depends of course on the development of methods that can be used for making frequent measurements quickly and accurately. The urinary method reported previously recovered only a portion of the aminochromes present in urine; although improvements in the method resulted in better recoveries, the method was still considered too cumbersome to be used extensively and was therefore put aside. Attempts have been made during the past year to develop a technique for measuring aminochromes in the blood. Although it can readily be shown that most patients called "schizophrenic" at the McLean Hospital in 1961-62 had an excess of these substances in the blood, the problems of methodology have not yet been solved. At the moment there is still no satisfactory blood method for general use.

The second problem involves the purification of the material in beef-pineal extracts that lowers the blood aminochrome level. Thus far a 500-fold purification has been achieved but the active principle has not yet been obtained in an absolutely pure state. In the meantime, however, extensive studies on the effects of pineal extract on the physiology of the rat have been made. A good deal has been learned about the role of the pineal gland in various bodily functions. In addition to the previous finding—now amply confirmed—that the pineal gland retards sexual maturation and inhibits anterior-pituitary-ovarian function, the studies in rats have shown that the pineal gland inhibits the growth and the acid-phosphatase production of the prostate gland; there are no gross changes in the tests. This work has been carried out in cooperation with Dr. Willard Roth, of the Harvard Medical School, and Dr. Richard J. Wurtman, now of the National Institutes of Health at Bethesda, Maryland. The work indicated also that the well-known effect of light on ovarian function is mediated via the pineal gland. (The world population-explosion may be due in part to the bringing of electric lighting into dwellings).

MARK D. ALTSCHULE, M.D.

Report of the Director of Scientific Research

DURING 1962 the staff has undergone some changes. In June Drs. Pierre Dreyfus and H. Moser moved to the Kennedy Laboratories at the Massachusetts General Hospital as anticipated. In July Dr. Ernest T. Pritchard returned to Canada at the end of one year tenure of a National Multiple Sclerosis Society Fellowship. At the end of the year Dr. Edward Lewin, after more than two years on a Special National Institute of Health Fellowship, left to take a position at the University of Colorado, and Dr. Joseph Dobkin returned to Israel, to the Hebrew University, Jerusalem, from which he had been on leave of absence. In addition to these anticipated departures, Dr. Marjorie Lees resigned on September 30 to move to Dartmouth University for personal reasons. The departure of Dr. Lees, who had been a member of the Laboratory staff almost from its beginning, represents a grevious loss which will be felt for a long time to come.

Four people have been appointed to the staff: in January Ruth Landolt, M.D., a recipient of a N.M.S.S. Fellowship; in July, Howard S. Maker, M.D. a recipient of a NIH Special Fellowship; in September, Yasuo Takahashi, M.D. a recipient of a N.M.S.S. Fellowship; and in October, Richard N. Lolley, Ph.D. a holder of an NIH Research Fellowship. In addition Mr. Richard H. Quarles, a graduate student in the Division of Medical Sciences, Harvard University, and Mr. B.S.S. Ramarao, a special student of the Division, joined the laboratory in September. Finally, four students from Harvard Medical School, one from Tufts University School of Medicine, one sophomore from Harvard College, a high school graduate came to the Laboratory on summer fellowships, and a Radcliffe Senior is currently taking part in the work on a part-time basis.

With these and other changes, at the end of 1962 the Research Laboratory staff comprised 14 professional people, 11 research assistants, 4 laboratory assistants, 3 secretaries, one photographer, and 3 graduate students, a total of 36 people, and a reduction of 3 people from the level at the end of 1961. This reduction reflects the unanticipated departure of Dr. Lees and scheduled departures of Drs. Dreyfus and Moser.

For current operations, the laboratory received during the calendar year $193,981 from the United States Public Health Service, $1,000

from the National Heart Association, $500 from the National Multiple Sclerosis Society, and $78,000 from the National Science Foundation, amounting to a grand total of $273,481.

Of the amounts received, only $2,000 was spent of the National Science Foundation Grant. On the other hand, of funds already available, $3,600 was used for Dr. H. Moser, and $30,000 from the Ford Foundation grant that had been paid in full last year. Hence the *actual contribution to current expenses* was $273,481—76,000+3600+30,000= $231,081. This compares with about $245,000 for 1961, the reduction reflecting the termination of Drs. Dreyfus and Moser's activities, and the departure of Dr. Lees.

The scientific work carried out during the year was reviewed by the Advisory Committee on January 25, 1963. It is summarized below under three different headings, namely, *Biochemical Studies,* prepared by the undersigned; *Neuropathological Studies,* prepared by Dr. Alfred Pope; and *Biophysical Studies,* by Dr. J. David Robertson.

BIOCHEMICAL STUDIES

During 1962 the work has continued to deal mainly with various aspects of the biochemistry of *proteolipids, strandin* and *Phosphatidopeptides,* the three different types of complex macromolecular aggregates which had been recognized by earlier work. The various studies have dealt with the extraction, purification, composition, physico-chemical study and biosynthesis of proteolipids; with the methods of extraction and of purification of strandin and gangliosides, their chemistry, their physical properties, and their biosynthesis; with the related problem of the chemistry of sulfatides and cerebrosides; with the chemistry and metabolism of phosphatido-peptides and the germane problem of inositol metabolism; with the continuing study of various problems of chemical pathology; and with the constant overhauling of preparative and analytical procedures.

In the case of proteolipids, Drs. Jordi Folch and Howard Maker have revised the procedure of extraction. The new procedure, besides being milder and less time-consuming than the usual one, yields one-fourth again as much proteolipid from white matter as the previous one. Drs. Lees, Zand, Maker and Folch have studied the use of formic acid and of cetavlon (cetyl trymethyl ammonium bromide) as solvents for proteolipids. It has been found that these solvating agents react with proteolipids with dramatic changes in their physical properties.

Dr. Robert Zand has been able to find a number of solvents for proteolipids and this has permitted him to apply to their study electrophoresis, ultracentrifugation, osmotic pressure measurements, light scattering and viscosity measurements. The work in progress has yielded some positive information but it also has illustrated the great difficulties inherent in any studies of such substances. Parallel studies by X-ray diffraction techniques and infrared spectrometry have yielded no unexpected results.

Dr. Pritchard's study of the lipid moiety of proteolipid has given positive proof of the presence of phosphatidyl serine and of di- and triphosphoinositides as main lipid constituents. It has also confirmed the results of chromatographic procedures developed earlier by Matsumoto.

Drs. Lees and Folch have studied the behavior of proteolipids in some biphasic system, and have found it to be profoundly affected by the presence of sulfatides, among other liquids. The marked influence of sulfatides on proteolipids is a further illustration of the ability of proteolipids to react to various degrees with different substances with the formation of complexes of widely differing stability.

Dr. Lewis C. Mokrasch has continued his studies on the biosynthesis of proteolipids. The scrutiny of various subcellular tissue fractions has shown the medium mitochondria to be the most active fraction in proteolipid biosynthesis. Brain slices from young rats incorporate amino acids in proteolipids, and this incorporation is decreased by inhibitors of protein synthesis and stimulated by compounds known otherwise to be involved in protein synthesis. The incorporation of methionine has been shown to occur in internal sites in the protein moiety of proteolipids. With age, the ability of slices to incorporate amino acids in proteolipids decreases, but does not disappear completely.

As a development of this work Dr. Takahashi is at present attempting to determine the terminal groups of the protein moiety of proteolipids.

Miss Daveda Tennenbaum has continued her study of the lipid-protein bond(s) in the proteolipid molecule, and had started a detailed study of proteolipids from other tissues.

In the case of the ganglioside preparation, *strandin,* the development of mild procedures of isolation has continued but has not reached the point of a final formulation. The study of the molecular size has also been pursued by carrying out dialysis in various solvents with somewhat

puzzling observations which would tend to indicate a high reactivity of gangliosides that results in the formation of more or less stable complexes between gangliosides and other lipids. This high reactivity might account for the little progress made towards the development of readily reproducible procedures of fractionation of the total ganglioside mixture, an endeavor to which considerable time has been devoted.

Both for its own interest, and as a possible means of gaining information on the reactivity of gangliosides, Mr. Quarles has started a study of the interrelations between gangliosides and inorganic cations.

Dr. George P. Hauser has extended his studies on the biosynthesis of carbohydrate constituents to encompass the biosynthesis of gangliosides.

In the closely related field of the chemistry of other galactolipids, Drs. Anne Marie and Pierre Stoffyn have succeeded in desulfating quantitatively the two chromatographically distinct sulfatides that are separated from the sulfatide preparation that is obtained by the method of Lees et al. As products of desulfatation, they have isolated the corresponding cerebrosides, thus proving the surmise of Blix to the effect that sulfatides are simple sulfate esters of cerebrosides.

In an elegant study of the structure of sulfatides, the Stoffyns have also succeeded in showing that the sulfate residue is combined with carbon 3 of galactose, instead of with carbon 6 as had been assumed hitherto. In the course of this work, they have developed procedures of general interest to lipid and to carbohydrate chemistry.

The group headed by Dr. Francis N. LeBaron has continued its thorough investigation of the phosphatido-peptides and other inositol containing protein fractions. The effect of metrazole induced convulsions on the incorporation of P^{32} in brain phosphatidopeptides has yielded a welter of information which does not yet show a clear pattern. The study of variations in the amino acids combined in phosphatidopeptides according to the procedure of preparation has also returned somewhat inconclusive information, a fact that illustrates only too well the tremendous difficulties encounterd in such studies. As an ancillary project, the distribution of inositol in the various parallel tissue fractions has been established.

Mr. R. E. Martenson, in the same group, has pursued a comprehensive study of protein fractions, especially of the viscous protein fraction which had been recognized earlier.

In close connection with the preceding work, Dr. Hauser has continued his work on the biosynthesis of the carbohydrate moieties of

lipids. He has studied the in vivo incorporation of glucose carbon into lipid inositol and lipid glycerol in brain, liver, and kidney. Incorporation has been found to be more marked in the young in conformity with anticipated results. He has succeeded in demonstrating incorporation into inositol of glucose carbon by tissue slices, an endeavor in which success had not been attained earlier. Thanks to the availability of tissue from one human biopsy, the observations on the rats have been validated for humans. The detailed results of all this work suggest that in mammals, inositol biosynthesis may follow different pathways than the ones suggested by previous work with yeast. Finally, Dr. Hauser has participated in a number of collaborative efforts.

Dr. Dobkin has continued an intricate study of the changes induced in the metabolism of various carbohydrate moieties by metrazole in convulsant doses. The analysis of all the results obtained has not yet progressed to the point of showing a definite pattern.

All the foregoing groups have participated to various degrees in the general work of constant overhauling of preparative and analytical procedures, and in the study of pathological problems. Among the latter, Drs. Moser and Hauser in consultation with various members of the staff were able to study the in vivo metabolism of S^{35} sulfate in children with metachromatic leucodistrophy. This is a most encouraging development.

NEUROPATHOLOGICAL STUDIES

(This section of the report prepared by Dr. Alfred Pope)

During 1962 the microchemical unit in the Laboratory continued and diversified its program of applying the technology of quantitative histochemistry to analysis of the normal and pathological chemoarchitecture of the central nervous system.

As in the past, the problem receiving primary attention has been analysis of the microchemical architecture of mammalian isocortex, particularly that of man. Studies have continued on the quantitative intralaminar distributions of proteins, lipids, and nucleic acids in autopsy specimens of normal and pathological human frontal cortex (Dr. Helen Hess, Dr. Edward Lewin and Miss Thalheimer), and of enzymes in pathological cortex (Dr. Pope) especially accompanying development of late-life dementias. In addition, Dr. Lewin studied the influence of monovalent cations on the architectonic distribution pattern

of magnesium stimulated ATP phosphohydrolase (ATPase) activity in the somatosensory cortex of the rat. Parallel observations were made as well in experimental focal epileptogenic lesions.

Other micro neurochemical investigations have included the following:

1) Further development and validation of ultramicro methods for analysis of biochemical structural components (Dr. Hess and Miss Thalheimer).

2) Quantitative histochemical surveys of the regional neurochemistry of proteins, lipids, and nucleic acids in human central nervous system (Dr. Ruth M. Landolt, Dr. Hess and Miss Thalheimer) and of metabolic characteristics in the CNS of the albino rat (Dr. Pope).

3) Microchemical analyses upon structural compounds in tissue cultures of human cortex and white matter (Dr. Hess, Dr. Lewin, Dr. Landolt and Miss Thalheimer). These studies are being done in collaboration with Dr. Ruth Geiger of Chicago.

4) Quantitative histochemical studies on the effects of cations upon ATPase activity in human tumors of the glioma group (Mr. Schneider and Dr. Hess).

5) Continued work upon the microchemistry of thiamine deficiency in man and in experimental animals (Dr. Dreyfus and Miss Moniz). During the past year, the regional microchemistry of transketolase activity was studied in the CNS of normal and deficient rats, and transketolase assays made on blood samples from patients in relation to the clinical course of Wernicke's Disease. Further development of an ultramicro method for the assay of pyruvic decarboxylase was also carried out (Dr. Dreyfus and Dr. Hauser). Work on the microchemical pathology of deficiency disease was terminated by planned transfer of this project to the Kennedy Laboratories of the Massachusetts General Hospital in June 1962.

6) Initiation of quantitative histochemical studies upon structural components, enzymes and metabolites in isolated frog retinal rod outer segments (Dr. Hess and Dr. Lolley). This represents the first phase in a collaborative study on the ultrastructure and the microchemistry of these modified neural membranes being undertaken by Dr. Robertson and Dr. Hess.

During the past year results of special interest emerged from the two lines of investigation on brain ATPase activity. The data obtained by Dr. Lewin showed that in the absence of sodium or potassium,

Mg^{++}-ATPase has an intracortical distribution almost identical with that previously found in this Laboratory for cytochrome oxidase and, therefore, indicative of localization in mitochondria. However, in the presence of optimal concentrations of both Na^+ and K^+, Mg^{++}-ATPase activity is much greater, and the intralaminar profile attributable to the Na^+-K^+-Mg^{++} dependent enzyme similar to those previously observed for both acetylcholinesterase and calcium stimulated ATPase. It is probable that this pattern signifies the localization of these enzyme systems in plasma membranes and is consistent with their having some role in events generating bio-electric potentials and nerve impulse propagation.

In a series of intracerebral tumors classified as astrocytomas of varying grades of malignancy, Mr. Schneider and Dr. Hess confirmed and extended an earlier observation that the enhancement of Mg^{++}-ATPase induced by $Na^+$and K^+ in normal brain does not occur. This suggests the possibility that a Na^+-K^+-Mg^{++}-ATPase system for linked ion transport is not present in astrocytes. Absence of such a mechanism would be consistent with much neurobiological evidence indicating that astrocyte cytoplasm fulfills the role of an extracellular fluid compartment in brain.

BIOPHYSICAL STUDIES

(This section of report prepared by J. David Robertson)

The work carried out in 1962 has dealt with four subjects: (1) Crayfish giant fiber synapses. (2) Octopus optic nerve. (3) Mauthner cell synapses. (4) Retinal rod outer segments.

(1) The previous findings on crayfish giant fiber synapses have been extended and confirmed. The obliteration of the gap between pre- and post-synaptic membranes in the electrically transmitting synapse is now firmly established and a second type of synapse has been defined mainly on the surface of the motor giant fibers. It has a synaptic cleft 100-150 Å wide, numerous synaptic vesicles, mitochondria, glycogen and no neurofilaments.

(2) The effects on Octopus optic nerve fibers of 0.6% $KMnO_4$ fixatives made up in sea water of varying concentrations from six times isotonic to zero salts have been studied. Mitochondrial intermembrane gaps swell in hypotonic fixatives and shrink in hypertonic ones. All

intermembrane gaps were closed after isotonic or hypertonic fixation. Membranes were found stretched and ruptured after hypotonic fixation but the unit membrane pattern persisted with some decrease in thickness. After hypertonic fixation, vesicles were expelled from axon surfaces by a process of reverse pinocytosis. The unit membranes were thicker but the triple layered pattern was retained. The persistence of the unit membrane pattern in both stretched and contracted membranes shows that their lipid molecules are not in a state comparable to spread monolayers but are firmly bonded to the outer non-lipid components.

(3) Mauthner cell synapses were studied with two Harvard medical students, Mr. T. S. Bodenheimer and Mr. D. E. Stage, and the assistance of Miss Janet Lamborghini and Mrs. Ann Doughty. We have found an abundant amount of dense extracellular matrix material around the synapses on the Mauthner soma-dendrite in a layer ~5 μ thick. Similar material also occurs at nodes and in lesser amounts as thin cords in the axon cap neuropil.

A new kind of vertebrate synaptic contact similar to the crayfish electrical synapses has been found in club endings. These show disc-like regions ~O.2-0.5 μ long in which the synaptic cleft is completely obliterated. These alternate with regions of desmosome-like differentiation. The club endings contain neurofilaments, neurotubules, moderate numbers of synaptic vesicles, and mitochondria elongated perpendicular to the synaptic membranes.

The boutons terminaux show synaptic clefts that uniformly measure ~100-150 Å across. These endings are like the new crayfish synapse in that they are packed with synaptic vesicles, contorted mitochondria and glycogen. They show no neurofilaments or neurotubules.

The synaptic discs in transverse view after $KMnO_4$ fixation reveal a beading of the central dense layer of the external-compound-membranes with dense spots repeating at a period of ~85 A. In frontal view a very regular array of closely packed hexagonal or pentagonal subunits giving a honeycomb-like pattern appears. The repeat period of the subunits is ~95 Å and each subunit facet has a central dense spot <25 A in diameter. The subunits involve only the outer halves of the unit membranes. Similar subunit facets also appear in the unit membranes of synaptic vesicles and suggestions of them have been seen in mitochondria.

The arrangements of the subunits follow the kind of geodesic plan

that the architect, Buckminster Fuller, has found necessary for the construction of steel frameworks that can be folded into concrete domes without buckling. It appears that some virus surfaces are constructed in this way and it is tempting to believe that the modern architectural principles utilize a natural structural phenomenon.

(4) The last category involves preliminary work on a new research program with Dr. Helen Hess on the structure of retinal rod outer segments (ROS) membranes. A simple technique has been devised for obtaining isolated ROS's and preliminary studies of $KMnO_4$ fixed fragmented preparations have revealed a hexagonal pattern like the one observed in the goldfish synaptic discs.

J. Folch-Pi, M.D.

Report of the Psychology Department

DURING the past year the Psychology Department has continued its major function of psychological testing, research, teaching and psychotherapy. A total of 177 patients was seen for psychological testing and 652 tests were administered.

Most of the testing is completed within a few weeks after the patient is admitted to the hospital, as part of the over-all clinical evaluation. Often patients are re-tested 6 months to 1 year later for purposes of re-evaluation and determination of the incidence and degree of improvement. Although not all newly admitted patients are referred to the Psychology Department, we are planning to test all patients under the age of 21.

Psychological testing has been particularly helpful in dealing with the unique problems of diagnosis and planning for the ever increasing adolescent patients. As the Day Care Program expands, plans are underway to make psychological testing a part of the regular procedure used to evaluate the new patients who are admitted directly to this program. For the most part, the psychiatric staff refers patients for testing when there are questions concerning diagnosis, degree of pathology, brain damage and suicidal potential. Through the medium of the work-up conferences and follow-up data on the patient's course in the hospital after testing, it has been possible to apply a research attitude to the psychological test data. Thus, we are always accumulating additional "signs" for the various types of pathology in order to achieve higher validity to our test interpretations.

Dr. Pierce has continued her research interests in the areas of perception and of adolescence. Dr. Schnitzer has begun some preliminary research on the problems of identity diffusion in post-partem psychosis. Mr. Erle continues his investigations of the representation of abstract notions in a medium of visual imagery. Dr. Soskin's research on long term sequences of social behavior and vocal communications is continuing. In addition, Dr. Pierce is a research consultant on the staff of the James Jackson Putnam Children's Center.

Teaching activities include a course on the Theory and Application of Psychological Testing given to the residents, lectures to the medical students and nurses, and supervision in diagnostic testing of the graduate students in the Department of Social Relations at Harvard

University who do part of their practicum training here. In conjunction with Dr. Stanley H. Eldred and Dr. John M. Kuldau of the psychiatric staff and Dr. Norman W. Bell in the Social Science Department, we have organized a seminar on research methodology in clinical psychiatry for both residents and senior staff members.

We have begun to expand our training responsibilities as part of a long-range plan to establish an internship training program in Clinical Psychology. This year Miss Anita Laverman, a Ph.D. candidate at Boston University, has joined our staff to continue her practicum training which was begun the previous year at the Massachusetts Mental Health Center during her internship. We are also very pleased that Dr. Ralph Semon, Director of the Psychology Department at the Beaver Brook Child Guidance Clinic, has been able to devote one day a week to the psychological testing of our patients.

IRENE PIERCE STIVER, Ph.D.

Report of the Social Science Department

AS in former years, the Social Science Department has been principally concerned with research but devoted a substantial amount of time to teaching and other service-oriented activities.

Most research projects have continued apace. In Dr. Norman W. Bell's collaborative study with Drs. Stanley H. Eldred and Lewis J. Sherman, and now Dr. Richard H. Longabaugh, data collection was completed and the heavy tasks of analysis begun. While it is premature to state conclusions at this point, it is evident that there are many regularities in the social, especially interactional, processes of the ward. Such regularities are by their nature not commonly or easily observed, but may be of considerable scientific and clinical interest. Dr. Rose L. Coser was successful in obtaining a three-year extension of her project to study how the professional self-image of the psychiatrist is shaped during residency training. This extension allows Dr. Coser to increase the number of residents studied and to follow groups of residents over a longer period of their training. By the end of this project a detailed picture will be available of the process of professional training, the agents by which it is accomplished, and the organizational frame within which it takes place.

Dr. Murray Melbin's interest in some theoretical problems in the study of the interpersonal behavior of aides and patients has continued, but increasing attention has been directed toward turnover among hospital personnel, and how organizational changes might reduce this persistent problem. Dr. Melbin's work has been hampered by the lack of research funds. Fortunately, partial support could be arranged by the hospital so that a research career was not totally interrupted. However, this again underscores the uncertainties of depending on research grants and the need to develop some firmer foundation for work in this area.

Dr. Anne Parsons has completed the gathering of data on patients of Italian background admitted to Boston State Hospital in 1938 through 1961. Analyses of these data may shed important light on the effects of social class and familial factors on the precipitation of schizophrenia.

Less tangible than research results, but still interesting and stimulating, are other activities. All members of the Department offered sem-

inars on special interest areas to residents. By design, the groups were small, and although this way of teaching is time-consuming, it has been felt by all to be rewarding. Requests for lecturing in the School of Nursing and in other programs have increased and strain available resources.

Members of the Department have also had the opportunity to give freely of their time in a variety of other enterprises. Dr. Bell has joined Dr. Paul M. Howard in offering a formal "problems" conference and an informal conference on group aspects of hospital life and hospital treatment. Dr. Parsons has provided much assistance in understanding patients with different ethnic backgrounds than those usually encountered. Other members too, often in informal discussion of research and clinical problems, have found ways of contributing to the variegated life at McLean Hospital.

During the year, Richard Longabaugh completed his doctoral work in the Harvard Graduate School of Education and received an Ed.D. degree. Dr. Longabaugh has now joined the staff of the Department as an Assistant Social Scientist. We were also very happy to welcome Nancy Dummer, M.A., as a Research Assistant, and to have Lorrin Koran write his senior honor's thesis at Harvard College with several members of the Department. Mr. Koran continued his work through the summer before entering Harvard Medical School.

NORMAN W. BELL, Ph.D.

Report of the Social Work Department

DURING the year the Social Work Department filled its complement bringing the total casework staff up to 7 full-time and 3 part-time workers, which is equivalent to 9 full-time social workers. Mrs. Barbara Schwartz, a part-time worker, joined the staff in April 1962; Mr. Frederick Seifer in June 1962; and Miss Constance McGrath, Supervisor, in September 1962. With these appointments it is hoped that the overburdened staff would be able to strengthen its existing services to patients and families as well as to have sufficient time to keep current various administrative matters pertaining to the job.

The year marked a notable increase in the number of family care placements. A total of 16 patients, 7 adolescents and 9 adults were placed in foster homes. Twelve of these patients remained in the community while 4 were rehospitalized. Locating, investigating, placing patients, and then supervising the home after placement has required workers to make many visits into the community to interpret patients needs and develop a suitable roster of foster families. The department carried an average of 186 cases per month (16 over the previous year). Approximately 55 of this number were out-patients. A total of 5,933 interviews were conducted during the year offering services to 420 patients and their families.

A major development in the Social Work Department was the addition of two positions in the group work staff. Mr. John Ansty was appointed to the department in June 1962, and Miss Ann Devine in July 1962. Miss Devine was given responsibility for the volunteer services, and Miss Jo Ann Glotfelty was promoted to supervisor of the group work section.

The primary goal of the group work service has been to help patients adjust to and maintain themselves in the hospital environment through participation in various group activities. The formation of social clubs (Young Adult Lounge, College Girls Club, Auto Mechanics, and Jazz Club) gave patients opportunities to participate in activities with their peers. The members of a men's work group while engaged in physical activity were able to discuss their fears about leaving the hospital and returning to work. These group activities which included wood chopping and redecoration of the volunteer lounge were also helpful tasks to the hospital. A total of 72 patients were members of the various

groups. Because patients improved sufficiently to be discharged from the hospital, two groups were disbanded. For next year it is anticipated that group workers will be assigned more work with hall groups around the social and civic aspects of group living.

Dr. Katherine Spencer and Miss Golda Edinburg completed their study project financed by the National Institute of Health on "Establishing a Social Work Program in a Private Psychiatric Hospital." It is hoped that their report will be used as a reference in teaching administration in schools of social work.

GOLDA EDINBURG, M.S.S.S.

Volunteer Services

The Volunteer Program has completed its third year of formal organization with a continually broadening program of individual and group services in the hospital. There is a core of experienced volunteers whose services have become most meaningful and valuable. The Gardening Club, the Art Lending Library Committee, Library Teas for patients and staff, activities on the patient halls, and a Businessman's Club were among the group activities offered. Volunteers also held positions as hall receptionists. Orientation and in-service training meetings were held regularly throughout the year to help volunteers become integrated into the hospital community.

A recognition party honoring McLean Volunteers was planned and given by patients at which time 38 volunteers received awards and recognition for a total of 3,200 hours of service. Mrs. Alison J. Coolidge, Chairman of Volunteers, received a five-year pin and is the first volunteer to receive this award.

A new volunteer room was opened next to the Coffee Shop which provides more adequate facility for meetings and for expanding volunteer-patient group activities and services.

ANN DEVINE GROSS

Report of the Nursing Department

The Nursing Service

A CAREFUL review of the philosophy and objectives of the Nursing Service during the past year has prompted its membership to evaluate and further implement the action taken for improved patient care. One major step taken which was formulated and will be implemented in 1963 is the preparation of a Charge Nurses Manual. This manual is conceived as a book of constant reference and includes the responsibilities and functions of charge nurses on all tours of duty and should provide the ultimate in comprehensive nursing care. It is planned also to include a revised Table of Organization of Nursing Service in this manual because of the organizational changes in the hospital. The development of this manual was shared by a special committee who enlisted the aid of a large number of nurses throughout the hospital, making it a group project.

The Nursing Department has continued to work on various projects throughout the year. The evaluation procedure on all nursing personnel was completely revised and, as a result, the counseling and guidance process has been much improved. Discussion concerning personnel identification such as uniforms and name pins resulted in the development of an appropriate policy, but further work needs to be done in relation to uniforms and their effect on the care of the patient, particularly with the psychiatric aide group.

Special attention has been focused on the professional nurse. Because a survey revealed that only 55 per cent of the full-time nurse population were members of their professional organization, and in an effort to stress the advantages of the organization to the nurse and the hospital, certain members were sponsored to attend the American Nurses Association Convention. There have also been other professional opportunities on the State and district levels. Those nurses attending meetings shared their information with those who were unable to attend.

Arrangements have been made for nurses and psychiatric aides, who work either full-time or part-time, to pursue their education at nearby colleges. Twenty-one nurses and twenty-four psychiatric aides have realized this opportunity. During the year twenty-one nurses have

studied under the McLean Graduate Registered Nurse Scholarship Fund at three of the local colleges and universities, and 113 credits were earned. It is apparent that additional nurses were recruited as a result of the benefits offered in this attractive program.

Changes in salary ranges for all nursing personnel were approved. The changes made were generally in keeping with ranges in the Greater Boston area, except for the lower differential for night duty.

The Nursing Practice Committee has worked toward simplification of procedures and economy of operation. The two most important accomplishments were the completion and approval of the procedure of the Administration of Medicines, and the development of a pilot study on a proposed Nursing Notes Sheet which should reveal a clearer picture of the patient's progress.

The Committe on Functions, Standards and Qualifications has begun studying the role of the psychiatric aide. It is planned to develop a new job specification for aides during the coming year.

The Supervisor and Head Nurse Groups held meetings to discuss issues pertinent to their areas of nursing function, as well as to resolve problems and discuss plans with other departmental members of the hospital.

The Supervisors' Office was relocated from North Belknap to the Administration Building, thus bringing their office within easy access to the nursing service administrators. Two offices were made available to the area supervisors on the patient halls. Presently these are being evaluated because of their distance from the central office.

In September Mr. Daniel H. Lennox, Assistant Director of Nursing Service, returned from a leave of absence during which he studied at Syracuse University. At this time the temporary position of Administrative Supervisor was eliminated. Educational advancement of supervisory personnel was as follows: In August 1962 Mr. John P. Pitcherale received an M.S. degree in Psychiatric Nursing from Boston University, and Mr. William H. Cummings received a B.S. in Nursing from Boston College.

The master staffing pattern was reviewed and changes were made according to the anticipated needs for patient care for the coming year. During the fiscal year the patients were provided with 5.9 nursing care hours per patient per day as compared to 6.4 the previous year. Of this total amount approximately one hour per patient per day was provided by student nurses. During the fiscal year the nursing comple-

ment included 12 head nurses, 12 assistant head nurses, 47 staff nurses and 101 psychiatric aides. At the end of the year the following budgeted positions were unfilled: 1 supervisor, 2 head nurses, 2 assistant head nurses and 2 staff nurses.

Activities shared with members of the medical and administrative programs include the development and opening of the present day care center; future planning of nursing needs in the rehabilitation building construction, particularly the day care unit; planning for reconstruction, redecoration and refurnishing of East House and Bowditch buildings commensurate with nursing needs of patients; development of fire prevention plans of action in patient areas and for the two nurses residences; participation in planning fire drills; participation in a planned fire institute; development of a master disaster plan of education and action; participation of nursing personnel in activity therapy; decentralization of clinical records from the central record room and various patient units; assisting in setting the therapeutic environment in the Patients' School; participation in two research programs, namely, "Suicide" and "Opinions about Mental Illness"; participation in the development of a medical care program for adolescents; orientation program of the resident physicians completed by group and individual nurse participation; resolving of problems as they arise, particularly in relation to dietary and housekeeping as they affected patient care; working with volunteers in the clinical areas; participation through representation on the hospital administrative and professional advisory committees, patient personnel and patient work conferences; and, participation of professional nurses as recorders in group therapy sessions.

Plans for the Nursing Service during the coming year are as follows: to study the development of nurse function in relation to patient participation in activities; to further develop the philosophy and objectives for each patient unit; to complete the revision of the nursing service organizational chart; to further develop evaluation and counseling techniques to be used for all personnel; to study the role of the psychiatric aide; and to revise and develop the techniques which will insure a continuous evaluation of nursing care.

The recommendations for improvment of nursing services in 1963-64 are:

1. That McLean graduate nurses and nurses with degrees begin starting salaries one step higher than the beginning rates for all staff nurses.

2. That nurses' salaries, including differentials, be reviewed and made comparable to those usually paid in most parts of the United States.
3. That the budget for Scholarship Grants to Graduate Nurses employed at McLean be increased to $6,000 annually.
4. That the nursing service administration office be increased by two offices.
5. That all nurses now receiving a three-week vacation be granted a four-week vacation after five years of continuous service.
6. That sufficient funds be budgeted to supply uniforms for psychiatric aides.
7. That satisfactory library services for nursing be developed.
8. That the health services to paid personnel be evaluated in order to clarify the extent of services available.

Members of the nursing staff join me in an expression of their appreciation for the help and guidance given during the year by the Board of Trustees, the medical staff, the administrative staff, and all the other hospital departments.

THE SCHOOL OF NURSING

Early in the year the faculty began to study and evaluate standards of measurement which were defined by the Department of Diploma and Associate Degree Programs of the National League for Nursing, entitled "Criteria for the Evaluation of Educational Programs in Nursing Leading to a Diploma." This information was used as a guide toward self-evaluation and program improvement, and led to definite decisions and important accomplishments. The committee recommended the following changes: revision of the grading policies and warning policies for students; student employment policies; school catalog; student guidance and welfare program; school of nursing organizational chart; sponsoring and formalizing the structure of the faculty in-service program; recataloguing the library books and periodicals; review of faculty personnel policies. The instructional staff was increased by one full-time member and one part-time member, and the total curriculum was evaluated which resulted in better control of the educational program by the instructors.

The Advisory Committee of the School of Nursing has continued to give wise counseling to the Director of the School. Their encourage-

ment in presenting recommendations for approval to the trustees and/or to the Psychiatrist in Chief of the hospital was especially helpful. As a result, a second medical surgical instructor was added and the tuition fee for the three year period was increased from $400 to $650 per student, beginning with the class entering in September 1963. Two changes were made in the membership of the committee: Mr. John E. Lawrence was appointed a trustee member to replace Mrs. Robert Homans, and Mr. Albert J. Orton, Dean of Boys at Belmont High School, was appointed the general education representative to replace Mr. Joseph F. Kolouch.

The special committee on the revision of the philosophy and objectives of the school presented its recommendations which were accepted by the faculty and published in the school catalog. The revision of the School of Nursing organization chart was intended to indicate the relationship of the school to the Board of Trustees and to other interrelated groups of the program.

The Coordinating Discussion Group made up of members of the McLean Hospital School of Nursing and the Nursing Service Department has continued to discuss problems between school and service. Material discussed and recommendations presented to the Director of the School of Nursing included staffing problems and nursing complements, student assignments, student attendance at resident and work conferences, senior student attendance at case conference and academic conference, response of nurses regarding medical records and coordination of school information for use in nursing service.

A continuation of the cost study under the auspices of the National League for Nursing, supported by the United States Public Health Service, has revealed methods of determining costs, but a final outcome has not yet been supplied to the school. It is hoped that ways to support the education of the student without increasing the financial burden of the patient can be developed in the future.

With the rise in the number of students and the continuous evaluation of the new medical surgical program it was necessary to increase the number of instructors. At the beginning of the year Miss Nancy E. Bowker, R.N., B.S., a graduate of Simmons College School of Nursing and a faculty member for three years, was promoted from the position of Instructor in Nursing to Junior Instructor in Medical Surgical Nursing, and later was promoted to senior instructor in this clinical area to replace Mrs. Genevieve M. Fitzpatrick. Upon the resig-

nation of Miss Bowker, Miss Helen B. Langton, R.N., M.Ed., M.S. in Nurs., graduate of Boston University, was appointed to fill the vacancy.

During this process a number of changes in functions and a change of titles took place. Miss Mabel A. Gioro, R.N., a graduate of McLean Hospital School of Nursing, was appointed Assistant Instructor in Nursing, and Miss Joan F. Mullahy, R.N., B.S., a graduate of Boston College School of Nursing, was appointed Assistant Instructor in Science. Miss Gail D. Mulligan, M.A., graduate of Regis College and Brandeis University, was appointed a part-time instructor in chemistry. There were also a number of changes made in the psychiatric instructor group. Mrs. Teresa A. Whelan, R.N., M.S., graduate of Duquesne University and Catholic University of America, replaced Mrs. Martha Pride as Instructor in Psychiatric Nursing, and Miss Helen M. MacLeod, R.N., a graduate of McLean Hospital School of Nursing, was appointed Assistant Instructor in Psychiatric Nursing. Mrs. Naomi H. Tomney, R.N., B.S., a graduate of Simmons College School of Nursing, was appointed Evening Instructor in Psychiatric Nursing, an additional position which was approved but unfilled during the previous year.

In order to improve their professional preparation, five faculty members attended college on a part-time basis. Four members utilized the graduate nurse scholarship offered by the hospital. Faculty members have attended and participated in meetings, workshops, institutes and conventions sponsored by national, regional, state and local professional nursing organizations.

The School of Nursing received 178 applications and 26 of these were accepted. By comparison, 31 students were accepted in the previous year from 116 applications.

Approximately 500 school bulletins were mailed as a result of inquiries, and 1,300 recruitment fliers were sent to high schools, colleges and public libraries.

A public Investiture Service was held in the Samuel Eliot Memorial Chapel in the form of a Nightingale Service. The speaker was Miss Garland Lewis, Coordinator of the Nursing Service Education Department at McLean Hospital. The Alumni Association scholarship for a first year student was awarded to Mrs. Mary J. Grace.

At the annual graduation commencement Mr. Sidney R. Rabb, Trustee of the Massachusetts General Hospital, was the speaker. The class gift, presented at the exercises, was a coffee urn for use during activities by the students and faculty. The Wetherill Awards for recognition of

development and exercise of the spirit of thoughtfulness for others were awarded to three members of the graduating class, Miss Ila M. Wilson, Mr. Peter J. Backiel, and Miss Ineke Kneepkins (posthumously). The McLean Hospital Nurses Alumni Educational Scholarship Award was given to Robert F. Allen, a member of the graduating class and two Annabella McCrae Scholarship Awards were presented to Mr. Thomas W. Clark and Mrs. William F. Cooper, undergraduate students. The Lucile C. Pitcher Memorial Award given by the McLean Hospital Auxiliary was awarded to Miss Ineke Kneepkins (posthumously) for excellence in psychiatric nursing with the understanding that the funds would be added to the memorial founded by her classmates. Miss Kneepkins, a member of the graduating class of 1962, died in Saigon, South Vietnam, a month before the commencement exercises. She entered the McLean Hospital School of Nursing in the Spring of 1961 to complete requirements for general nursing and thus facilitate her career with the World Health Organization. Prior to this she had been a registered psychiatric nurse in Holland and had worked for five years in the World Health Organization project at the All India Mental Health Institute in Bangalore. Miss Kneepkins was granted a leave of absence from the school in May 1962 to act as a consultant in mental health nursing for W.H.O. in Saigon, South Vietnam. While there she was to survey facilities and make recommendations for education of nurses and aides caring for the mentally ill. She found the need so great and the people so receptive to help that she initiated programs and changes even while gathering her information. All money given in memoriam will be used to supplement other funds already designated to establish a library in the Bien Hoa Psychiatric Hospital where a pavilion has now been named in her honor.

Under the leadership of Robert F. Allen, president of the Student Association of McLean Hospital School of Nursing, the members have been busy laying a firm foundation for increased performance, communications and benefits for their individual members and for their association. To help solve problems of communication, a new student magazine "The Lamp Post" was published. This magazine was shared with other student organizations in Massachusetts as well as with hospital departments. This organization subscribed to the "Life" series of books about foreign countries and contributed four new magazines to the school library which offer news and opportunities, particularly of

youth and youth movements around the world. A new ping pong table was purchased for Higginson House recreation room and other minor purchases and repairs were made. Other accomplishments made by the student association membership include publishing the student handbook, revision of the By-Laws of the organization, revision of the dormitory rules, participation in setting up a proctoring system for fire protection in both residences and planning recreation and social events as well as educational programs. The association financed the attendance of representatives to the National Student Nurses Association annual convention held in Detroit, Michigan. Mr. Allen, who was elected First Vice-President of the Student Nurses Association of Massachusetts, represented the State association at a conference of Eastern State Officers in Washington, D. C. Other McLean students elected to State office were: Mr. Thomas W. Clark, Second Vice-President, and Mr. Edmund P. Greenwood, Chairman of the State Student Nurse of the Year Committee. During the summer Mr. Allen lived in India as a representative of the Student Nurses Association of Massachusetts as part of the "Experiment in International Living" project. To help defray expenses he was given funds by the McLean Hospital Nurses Alumni Association. Upon his return to the United States he spoke to student nurses throughout the State and to the alumni association.

The general aims of the faculty for the current year include: encouraging members to continue their preparation for educational responsibilities in major areas of specialization; the continued development of objectives at various levels of the program; review of the curriculum in relation to a more even distribution of the program load throughout the three years; and a continued reappraisal of educational facilities.

Specific and important recommendations for the coming year are as follows:

1. That an additional psychiatric nursing instructor be employed. This would bring the student ratio per instructor in line with accepted standards.
2. That suitable facilities be provided for the care of students who are ill.
3. That the redecoration and replacement of furnishings at Higginson House and the Men Nurses Home be continued.

The faculty joins me in extending appreciation to all those who have contributed to the operation of the School of Nursing this past year,

and looks forward to a continuation of similar relationships in the coming year.

MARGARET C. TIBBETTS, R.N.
Director of the School of Nursing and Nursing Service

Report of Nursing Service Education

DURING the year two workshops in advanced psychiatric nursing were conducted for head nurses and assistant head nurses by the Coordinator of Nursing Education. The two staff members on the Nursing Education staff were included to give them a learning experience in individual supervision and teaching via the seminar method. To increase their skills in psychiatric nursing, this group was given clinical experience with individual patients and supervision was provided by the staff instructors. Daily seminars were included to discuss the problems encountered in psychiatric nursing and nursing administration.

Mrs. Audrey Miller conducted three three-month classes for sixteen psychiatric aides.

Arrangements were made with Antioch College for three of their students to be enrolled in each of the three psychiatric aide classes. These students remained on the hospital staff for three additional months. Similar arrangements were established with Northeastern University.

A study on psychiatric aide performance was carried out followed by a review of the current salary scale for psychiatric aides. The Coordinator acted as a consultant to the McLean Hospital School of Nursing on curriculum planning, supervision of students' clinical performance, and taught a three-month course in psychiatric nursing to the senior students.

GARLAND K. LEWIS, R.N., M.N.

McLean Hospital

Report of the School of Nursing and Nursing Service

NURSING SERVICE PERSONNEL, YEAR ENDING OCTOBER 1, 1962

	Women	Men	1961-62
Average No. Graduates	56.7	21.6	78.3
Average No. Graduates—*Part-time	4	0.6	4.6
Average No. Licensed Practical Nurses	2	0	2
Average No. Accepted Students	10	26	36
Average No. Preclinical Students	11	11	22
Total	83.7	59.2	142.9
Average No. Psychiatric Aides	43.3	49.6	92.9
Average No. Psychiatric Aides—*Part-time	4.5	9	13.5
Total	47.8	58.6	106.4
Total No. Preclinical Students Admitted	11	15	26
Preclinical Students Dropped or Resigned	3	6	9
Accepted Students Dropped or Resigned	4	2	6
Total Dropped or Resigned	7	8	15
Students Graduated	3	10	13
Student Veterans Enrolled—P.L. 550	0	5	5

*Expressed in equivalent of full-time

NURSING SERVICE PERSONNEL, OCTOBER 1, 1962

Graduate Nurses	Women	Men	Total
Full-time	58	22	80
Part-time	11	2	13
Total	69	24	93
Licensed Practical Nurses	2	0	2
McLean Hospital and Affiliating Student Nurses			
Accepted Students	14	29	43
Preclinical Students	11	15	26
Affiliating Students from Other Schools	38	0	38
Total	63	44	107
Total Nursing Personnel	134	68	202

Psychiatric Aides	Women	Men	Total
Full-time	36	47	83
Part-time	5	6.7	11.7
Total	41	53.7	94.7
McLean Students on Affiliation			
Massachusetts General Hospital	9	19	28
The Children's Hospital	3	0	3
Boston Lying-In Hospital	2	7	9
Total	14	26	40
Affiliating Students from Other Schools			
Who Completed Course 1961-1962:			
Massachusetts General Hospital	109	0	109
The Children's Hospital	31	0	31
M.G.H. Radcliffe College Program	5	0	5
Simmons College School of Nursing	13	0	13
University of Maine School of Nursing	12	0	12
Graduates	13	0	13
Total	183	0	183

Report of the McLean Hospital Auxiliary

THIS past year the McLean Hospital Auxiliary has continued to grow and become better known. It is respected in the community and in the hospital as an organization worthy of the support of its local citizens. The Auxiliary expanded from 83 to 119 members, including 6 life members, and the Board of Directors increased from 14 to 17 members.

Ten neighborhood membership teas and coffees were held at the homes offered by friends of the Auxiliary. Psychiatrists on the staff of the hospital spoke to these groups about the McLean philosophies and policies including the treatment program.

There were three membership meetings held at the hospital during which the Rehabilitation Building and its expected uses were described by Dr. Francis de Marneffe; Dr. Helen J. Kenney described the high school course offered to the patients for accreditation; the servicing of the hospital store by the Auxilians and the Volunteers was presented by the chairman of the Auxiliary; a corps of nurses related the several branches and its services to the patients; and the "Emotional Impact of the University Environment" was given by Dr. Ben Snyder, Psychiatrist in Chief of the Massachusetts Institute of Technology. All of these meetings covered a wide range of interests and brought friends and members together with the common objective of increasing their knowledge and understanding of McLean Hospital.

After 16 months of existence the first annual meeting was held on May 14. Mrs. Paul Howard, the Auxiliary's first president, was highly commended for the fine work that she and her Board accomplished during her term of office.

The Auxiliary volunteers continued to assist at scheduled hours with the selling of articles in the Hospital Store which was reopened in March after the fire in that building.

In May Dr. Alfred Stanton, Psychiatrist in Chief, designated Dr. Francis de Marneffe, Associate Psychiatrist who later became Director of Hospital Affairs, to be his representative on the board. He replaced Mr. Joseph Prekup, who became Associate Director of a western hospital.

A Strawberry Festival and Auction was the first money-raising project conducted by the Auxiliary. Mrs. Morris Adler, Chairman, and Mrs.

John A. Kowslowsky, Vice Chairman, and their committee organized this very successful function which was held in the East Occupational Therapy Garden on May 23. The Auxiliary realized a profit of $1,-119.79 from the auctioning of furniture, china, paintings, and the sale of articles from a white elephant table, book table and from coffee, strawberries, sandwiches and ice cream. Many people from the surrounding towns attended and mingled with the patients and hospital staff. This was a rewarding occasion both for public relations and financial aspects.

The hospital conducted a Fire Control Institute in June during which which the Auxilians served as registrars to participants of McLean as well as 55 participants from 13 hospitals in surrounding communities and fire departments.

The McLean Auxiliary has been represented and taken an active part in the Regional Meetings of the Greater Boston Council on Hospital Auxiliaries of the Massachusetts Hospital Association, New England Hospital Assembly, and the Coordinating Committee meetings of the Service Groups of the Massachusetts General Hospital.

Auxiliary activities have been well publicized in Boston and local newspapers and the *McLean Newsletter.*

In September 1962 the Treasurer's Report revealed a balance of $2,-240.80, an increase of $1,870.46 from one year ago.

The following gifts were given by the Auxiliary:

1. Four hundred dollars for one Nurse's Scholarship, awarded to Mary Lou Gioro in the McLean Hospital School of Nursing.
2. One hundred dollars to the Activity Therapies Department for equipment not budgeted.
3. Fifty dollars to the Lucile Pitcher Award for Excellence in Psychiatric Nursing, given posthumously to Ineke Kneepkens. This money will be forwarded to the Bien Hoa Hospital in South Vietnam where Miss Kneepkens died while working for the World Health Organization in the summer of 1962.
4. A 30-cup coffee maker to the Volunteer Services.
5. Ten dollars to the Patient's School for books.
6. Eight dollars for hall parties given by patients.

The Auxiliary is keenly aware of the continuing welcome, encouragement, and cooperation of the McLean Hospital staff, many of whom have given much time and special thought to our progress and development. The awakening of interest among its membership and friends

in the surrounding communities gives additional encouragement to the Auxiliary program and its related role to the hospital. There are challenges ahead and with the growth of this organization these will be met effectively.

The Board has approved the following plans for the coming year:

1. Repeating neighborhood membership teas and coffees.
2. Publishing a pamphlet listing the Board of Directors and the full membership with addresses and telephone numbers.
3. Placing volunteers in the store, and continuing to service the store when it moves into the Rehabilitation Building.
4. Continuing to support one or more Nurse's scholarships in the McLean Hospital School of Nursing.
5. Continuing to work closely with the Volunteer Department.
6. Rendering service to McLean Hospital and its patients in keeping with the Auxiliary's ability.

ELIZABETH MCC. SIMONDS
(MRS. GEORGE H. JR.)

Directory

A difficulty encountered in the yearly revision of this Directory is the frequent failure of individuals whose names appear herein to send us notification of changes of address or other pertinent data. We *urge* you to cooperate with us and send promptly any such changes either to our Secretaries' Office or to the Archives Department of the Hospital.

MEMBERS OF HOSPITAL STAFF, PAST ASSISTANT DIRECTORS, ALUMNI, AND PAST RESIDENTS

as of February 1963, including subsequent appointments received, effective up to and including July 1, 1963

Letters in small type, following the names, indicate the special work of individuals:—

a.: assistant
admin.: administrative; administrator
an.: anesthetist
anthropol.: anthropologist
assoc.: associate
attend.: attending
b.: bacteriologist
biochem.: biochemist
biol.: biologist
biophys.: biophysicist
c.: chief of service
c.r.p.: chief resident physician
c.r.s.: chief resident surgeon
cardiol.: cardiologist
chem.: chemist
cons.: consultant; consulting
d.: dermatologist
dir.: director
dn. s.: dental surgeon
e.: engineer
exec. a.: executive assistant
exec. o.: executive officer
gen. dir.: general director
hon. p.: honorary physician
hon. s.: honorary surgeon
h.p.: house physician
h.s.: house surgeon
immunol.: immunologist
l.: laryngologist
n.: neurologist
neurophysiol.: neurophysiologist
n.p.: neuropathologist
n.s.: neurosurgeon
obst.: obstetrician
oph.: ophthalmologist
oral s.: oral surgeon
otol.: otologist
otolar.: otolaryngologist
p.: physician
path.: pathologist
pediat.: pediatrician
pharm.: pharmacologist
physiol.: physiologist
prin.: principal
psychiat.: psychiatrist
psychol.: psychologist
r.: radiologist
res. a.: research assistant
res. assoc.: research associate
r.p.: resident physician
r. psychol.: resident psychologist
r.s.: resident surgeon
s.: surgeon
sc.res.a.: scientific research assistant
sc.res.assoc.: scientific research associate
soc.: social
sociol.: sociologist
soc. sc.: social scientist
supt.: superintendent
u.: urologist
virol.: virologist

Italics indicate to what service of the Hospital the individual belongs:—

An.: Anesthesia
Anat.: Anatomy
B.: Bacteriology
Bd. of Cons.: Board of Consultation
Biochem.: Biochemistry
Biochem. Res.: Biochemical Research
Biol.: Biology
Biolog.: Biological
Biomechan.: Biomechanics
Biophys.: Biophysics
Biophys. Res.: Biophysical Research
B.M.: Baker Memorial
C.: Children's Service
Cardiol.: Cardiology
Chem.: Chemistry
Clin. Physiol.: Clinical Physiology
Clin. Serv.: Clinical Services
C.M.: Children's Medical

Contag. Dis.: Contagious Diseases
D.: Dermatology
Dn.M.: Dental Medicine
Dn.: Dentistry
E.M.: East Medical
E.S.: East Surgical
Ed.: Education
Gyn.: Gynecology
Immunol.: Immunology
Int. M.: Internal Medicine
L.: Laryngology
M.: Medicine
(*McL.*): McLean Hospital
M.G.H. Clin.: M.G.H. Clinics
N.: Neurology
Neurophysiol.: Neurophysiology
N.P.: Neuropathology
N.S.: Neurosurgery
Nurs. Serv.: Nursing Service
Obst.: Obstetrics
O.P.D.: Out-Patient Department
Oph.: Ophthalmology; Ophthalmic
Or.: Orthopedics
Otol.: Otology
Otolar.: Otolaryngology
Path.: Pathology
P.H.: Phillips House
Pediat.: Pediatrics
Pharm.: Pharmacology
Phys. M.: Physical Medicine
Physiol.: Physiology
Prev. M.: Preventive Medicine
Psychiat.: Psychiatry
Psychol.: Psychology
R.: Radiology
Res.: Research
S.: General Surgical Services
Sc. Res.: Scientific Research
S.M.: South Medical
S.N.: School of Nursing
Soc. Anthropol.: Social Anthropology
Soc. Sc.: Social Sciences
Soc. Serv.: Social Service
S.S.: South Surgical
Syph.: Syphilology
T. Dis.: Tropical Diseases
Thd. S.: Third Surgical
T.M.: Tropical Medicine
Traum. S.: Traumatic Surgery
U.: Urology
W.M.: West Medical
W.S.: West Surgical

Supplementary list of abbreviations frequently used in this Directory:—
clin.: clinical
H.M.S.: Harvard Medical School
Inst.: Institute
j.: junior
Mass. E. & E. Inf.: Massachusetts Eye and Ear Infirmary
M.G.H.: Massachusetts General Hospital
M.I.T.: Massachusetts Institute of Technology
res.: research
R.N.: Registered Nurse
sc.: scientific
sr.: senior
v.: visiting
Vet. Adm. Hosp.: Veterans Administration Hospital

Addresses are in Boston unless stated to be elsewhere, and are in Massachusetts when no State is indicated.

AARONSON, L. D., a. *D.*
166 Wheeler Ave., Edgewood, R. I.
ABBOTT, J. A., *Bd. of Cons.;* a.r.p. *Psychiat.* 1935 M. G. H.
Abbott, L. C., *Or.* 1916
Univ. of California Hosp., San Francisco, Calif.
ABBOTT, W. M., a.r.s. (*S.* 1962) M. G. H.
Abi-Torbey, K., r.s. *U.* 1962
Immeuble Tabet, rue Abdel Wahab el Inglizi, Beirut, Lebanon
ABRAMOWICZ, M., a.r.p. *C.* M. G. H.
Acheson, G. H., *W.M.* 1939
Univ. of Cincinnati Coll. of Med., Cincinnati, Ohio
ACKERMAN, I. P., a.p. (*M.* 1951); r.p. 1955 Zero Emerson Pl.
ACKROYD, F. W., a.r.s. M. G. H.
ADAMS, F. D., hon. p. (*W.M.* 1918)
226 Marlborough
Adams, H. D., *E.S.* 1932; r.s. *E.S.* 1934 Lahey Clinic

ADAMS, JOHN, Jr., assoc. d.
704 Huntington Ave.

Adams, John E., a.r.p. *Path.* 1962
c/o Medical Examiner,
State of Maryland, 700 Fleet,
Baltimore, Md.

Adams, Ralph H., *W.S.* 1935; r.s.
E.S. 1939 Huggins Hosp.,
Wolfeboro, N. H.

Adams, Raymond A., r.p. *N.* 1951
Med. Coll. of Virginia,
Richmond, Va.

ADAMS, RAYMOND D., c. *N.* and
n.p.; r.p. *N.* 1939 M. G. H.

Adamson, G. L., r.p. *N.* 1930
Winnipeg Clinic, Winnipeg,
Manitoba, Canada

ADELSON, W. J., a. *Pediat.*
Boston Post Rd., S. Sudbury

ADLER, M. H., attend. psychiat.
(*McL.*) 130 Washington, Newton

Adler, S., sr.r.s. *Or.* 1959
4105 Silver, Albuquerque, N. M.

AESCHLIMAN, BARBARA L., a.
attend. psychiat. (*McL.*)
McLean Hosp., Belmont

AGARD, E. T., a. physicist *R.*
M. G. H.

Agranat, B. J., *Dn.M.* M. G. H.

Ahnlund, N. W., r.s. *Or.* 1943
6th and Santa Clara,
San Jose, Calif.

AISENBERG, A. C., a.p. M. G. H.

ALBERT, J., clin. assoc. *D.;* r.p. *D.*
1960 95 Lincoln, Framingham

Albright, E. C., *W.M.* 1942
University Hosp.,
Madison, Wis.

ALBRIGHT, F., *Bd. of Cons.* (*W.M.*
1926) M. G. H.

Albuquerque, P. F., r.s. *U.* 1944
rua Assembléia 51,
Rio de Janeiro, Brasil

Alexander, W. H., *W.S.* 1922 and
Thd.S. 1923
Commercial National Bank Bldg.,
Iron Mountain, Mich.

ALLEN, D. W., a. *M.* (*M.* 1955);
a.r.p. 1956 M. G. H.

ALLEN, H. F., assoc.s. *Oph.* (*W.S.*
1943) 200 Beacon

Allison, C. R., *W.M.* 1938; a.r.p.
1940 15 Prince,
Rochester, N. Y.

Alper, J. M., *E.M.* 1935
1185 Park Ave., New York, N. Y.

Alpers, D. H., *M.* 1961; a.r.p. 1962
National Inst. of Health,
Bethesda, Md.

ALPERT, D. R., a.s. *Oph.*
1101 Beacon, Brookline

Alston, E. F., *Path.* 1944; a.r.p. *Path.*
1945 2305 Van Ness Ave.,
San Francisco, Calif.

Alt, R. E., *W.S.* 1933
1 Monument Sq., Beverly

ALTSCHULE, M. D., dir. *Int. M.*
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McLean Hosp., Belmont

AMATI, JACQUELINE M., r.p. *Psy-*
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AMES, A., III, a. to gen. dir. *Res. and*
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Amick, A. F., *M.* 1957; a.r.p. 1958
3900 Elliot Ave.,
Minneapolis, Minn.

Andersen, E. W., a.r.p. *An.* 1948
Enighedsvey 7, Chl.,
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ANDERSON, E. E., clin. assoc. *C.;*
a.r.p. *C.M.* 1960 84 Ocean Ave.,
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Anderson, Erna G., r.p. *C.M.* 1943
Med. Dept., Eastman Kodak Co.,
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Anderson, H. C., *Path.* 1959
Memorial Hosp., 444 E. 68th,
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Anderson, R. L., *Or.* 1927
1208 Kanawha Blvd., East,
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Andrew, N. W., r.p. *An.* 1956
Boston City Hosp.

ANGELINI, H. D., a.s. *Otolar.*
3 Seaward Ave., Wellesley Hills

ANGLEY, J. C., a.p.
School, Bryantville

ANNINO, D. J., a. *Pediat.*
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Anthonisen, Margaret R., r.p. *Psychiat.*
(*McL.*) 1934
Mary Hitchcock Memorial Hosp.,
Hanover, N. H.

Anthonisen, N. L., r.p. *Psychiat.*
(*McL.*) 1932 Vet. Adm. Hosp.,
White River Junction, Vt.

Appel, S. H., *M.* 1961
Mount Sinai Hosp.,
New York, N. Y.

Aprahamian, H. A., a.r.p. *An.* 1956
Grace-New Haven Community
Hosp., New Haven, Conn.

Aranas, A. L., r.p. *Psychiat.* (*McL.*) 1961 Queen Mary Vet. Hosp., Montreal, Canada

Arnason, B. G. W., a.r.p. *N.* 1959 M. G. H.

ARNDT, K. A., a.r.p. *D.* M. G. H.

Arnstein, A. R., *M.* 1956; a.r.p. 1957 Henry Ford Hosp., Detroit, Mich.

ARONOW, S., assoc. applied physicist *M.* M. G. H.

ARONSON, J. A., a. psychiat. 50 Beacon

Arrowood, Julia G., r.p. *An.* 1936 Harlan Memorial Hosp., Harlan, Ky.

Arthur, R. J., *C.M.* 1952 U.S. Naval Hosp., Oakland, Calif.

Arzimanoglu, A. A., a.r.s. *Or.* 1952 1 Neofytoy Vamva, Athens, Greece

ASBURY, A. K., r.p. *N.* (*M.* 1959); a.r.p. 1960; a.r.p. *Path.* 1962 M. G. H.

Ash, H. L., *Dn.* 1960; r.s. *Dn. M.* 1962 29 Lincoln, Framingham

Aster, R. H., *M.* 1958; a.r.p. 1959 Boston City Hosp.

Atherton, L. D., r.s. *U.* 1952 321 W. Broadway, Louisville, Ky.

ATKINS, L., a. path.; r.p. *Path.* 1955 M. G. H.

Atsatt, R. F., *Or.* 1926 88C Thacher Rd., Ojai, Calif.

Atwood, W. G., *W.S.* 1921 151 Rock, Fall River

AUB, J. C., hon. p. (*E.M.* 1915); h.p. *E.M.* 1917 M.G.H.

AUFRANC, O. E., v.s.*Or.* (*Or.* 1938); r.s. *Or.* 1939 266 Beacon

AULT, L. L., a.r.s. *Or.* M. G. H.

AUSTEN, K. F., a.p. (*M.* 1955); c.r.p. 1961 M. G. H.

AUSTEN, W. G., a. *S.* (*S.* 1956); r.s. 1960 M. G. H.

AUSTIN, R. C., clin. assoc. *S.* (*S.* 1951); r.s. 1956 Concord Med. Center, Concord; M. G. H.

Averill, J. H., *M.* 1947 264 Elm, Northampton

AYER, J. B., hon. p.; cons.n. (*McL.*) 1350 Canton Ave., Milton

Ayers, W. B., *W.S.* 1943 1554 Northern Blvd., Manhasset, Long Island, N. Y.

Ayres, S., Jr., *W.M.* 1920 2007 Wilshire Blvd., Los Angeles, Calif.

BACKMAN, J. H., r.p. *Psychiat.* (*McL.*) McLean Hosp., Belmont

BACON, J. F., a.r. M. G. H.

Bacon, W. B., a.r.p. *Path.* 1951 S. Hamilton

Badal, D. W., r.p. *Psychiat.* 1942 11328 Euclid Ave., Cleveland, Ohio

Baddock, S. S., *Path.* M. G. H.

BADEN, H. P., clin. assoc. *D.*; a.r.p. *D.* 1960 M. G. H.

BADGER, T. L., *Bd. of Cons.* (*E.M.* 1928) 264 Beacon

Bagg, E. P., Jr., *E.M.* 1913 207 Elm, Holyoke

Bailey, D. W., *C.M.* 1959 River, Norwell

Bakay, L., sr.r.s. *N.S.* 1951 Edward J. Meyer Memorial Hosp., Buffalo, N. Y.

BAKER, DONALD V., Jr., clin. assoc. *S.* (*E.S.* 1943) 40 Broad

*Baker, Dudley M., sr.r.s. *Or.* 1962 U.S. Naval Hosp., San Diego, Calif.

BAKER, E. P., Jr., a.r.s. *N.S.* M. G. H.

BAKER, G. P., Jr., a. *M.* (*M.* 1958); r.p. 1961 M. G. H.

BAKER, M. P., p. (*E.M.* 1930) 262 Beacon

Baker, R. L., r.p. *N.* 1943 1020 S.W. Taylor, Portland, Oreg.

BAKER, WILLIAM H., assoc. p. M. G. H.

Baker, William J., *W.S.* 1943 724 Main, Laconia, N. H.

BALAZS, E. A., biochem. *Oph.* 20 Staniford

BALBONI, G. M., hon. p. 78 Mount Vernon

BALBONI, V. G., a.p. (*W.M.* 1942) M. G. H.

BALCH, F. G., Jr., *Bd. of Cons.* (*E.S.* 1925) 1180 Beacon, Brookline

Balfour, D. C., Jr., *E.M.* 1943 Las Encinas Hosp., Pasadena, Calif.

BALIUS, E. F., a.r.p. *An.* M. G. H.

Ball, R. E., r.p. *Psychiat.* (*McL.*) 1960 Toronto Psychiatric Hosp., Toronto, Canada

BALLANTINE, H. T., Jr., v.n.s. (*W.S.* 1939); a.r.s. *W.S.* 1941 and *N.S.* 1941 M. G. H.

Ballard, F. B., a.r.p. 1958 Med. Arts Bldg., Chattanooga, Tenn.

Bally, P. R., a.r.p. 1956 Medizinische Universitätsklinik, Kantonsspital, Zürich, Switzerland

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BALOGH, K., a. *Path.*; dir. *Otolar. Path.* (*E.* & *E.*) M. G. H.

Bandeian, Alice M., *An.* 1943; a.r.p. *An.* 1944 210 Pine, Holyoke

Bandler, B., r.p. *Psychiat.* 1941 Boston Univ.-Mass. Memorial Hosp. Med. Center

Banker, Betty Q., a.r.p. *N.P.* 1954 Children's Med. Center

Banks, H. H., a.r.s. *Or.* 1952 Peter Bent Brigham Hosp.

Banks, R., Jr., *E.S.* 1943 290 Enota Dr., Gainesville, Ga.

BARBOUR, JOSEPHINE C., c. *Soc. Serv.* M. G. H.

BARINGER, J. R., a.r.p. *N.* (*M.* 1960); a.r.p. 1961 M. G. H.

BARKER, R. H., clin. assoc. *Obst.* (*W.S.* 1937) 1101 Beacon, Brookline

BARLOW, JOHN F., r.p. *Path.* M. G. H.

BARLOW, JOHN S., neurophysiol. *N.* M. G. H.

Barlow, Joseph J., r.p. 1955 83 Hammondswood Rd., Chestnut Hill

BARNES, B. A., a.s. (*W.S.* 1945); a.r.s. 1952 M. G. H.

Barnett, C. G., *M.* 1954 384 Post, San Francisco, Calif.

Barnett, T. B., *M.* 1950 Univ. of North Carolina Sch. of Med., Chapel Hill, N. C.

BARNUM, F. G., Jr., a. *M.* (*W.S.* 1945); j.r.s. 1946 1776 Beacon, Brookline

BARONDES, S. H., r.p. *Psychiat.* (*McL.*) McLean Hosp., Belmont

BARR, J. S., c. *Or.* (*Or.* 1929) M. G. H.

Barrett, P. Van D., *M.* 1961; a.r.p. 1962 National Inst. of Health, Bethesda, Md.

Barretto, O. de F., *An.* 1944 rua Armando Penteado 356 (Pacaembú), Sáo Paulo, Brasil

BARRIE, J. R., a.r.s. (*S.* 1961) M. G. H.

Barrow, D. W., *E.S.* 1937 1310 E. Fox Lane, Milwaukee, Wis.

Barrows, L. J., r.p. *N.* 1952; r.p. *N.P.* 1953 Vet. Adm. Hosp., 150 S. Huntington Ave., Jamaica Plain

BARRY, H., Jr., assoc. psychiat.; r.p. *Psychiat.* 1944 M. G. H.

Barry, Richard M., a.r.p. 1957 464 Ocean Ave., New London, Conn.

BARRY, RT. REV. ROBERT P., *Trustee* 71 Warner, W. Somerville

Barsh, L. I., *Dn. M.* 1962 military service

Barss, T. P., a.r.p. *An.* 1950 332 Windsor Ave., Medford, Oreg.

Barth, T. A., a.r.s. *Or.* 1957 2420 N. California, Stockton, Calif.

BARTLETT, M. K., v.s. (*W.S.* 1931) M. G. H.

Bartlett, W. M., *C.M.* 1927 125 Michigan Ave., Decatur, Ga.

Barton, L. G., Jr., *E.S.* 1914 132 Court, Plattsburg, N. Y.

Barton, T. C., a.r.s. 1960 Boston Lying-in Hosp.

Bate, J. T., r.s. *U.* 1925 301 W. Ormsby Ave., Louisville, Ky.

Batt, R. C., r.p. *R.* 1940 83 Park, Glens Falls, N. Y.

Battat, F.A., a.r.s. *Or.* 1961 Children's Med. Center

BATTIT, G. E., a. *An.*; c.r.p. *An.* 1961 M. G. H.

Baue, A. E., *S.* 1955; r.s. 1961 Univ. of Missouri Med. Center, Columbia, Mo.

Bauer, F. L., *Path.* 1941 military service

BAUER, W., c. *M.*; r.p. *W.M.* 1927 M. G. H.

Baumgartner, D. A., Jr., a.r.s. 1961 15660 Oakhill Rd., E. Cleveland, Ohio

Bautista, Florosa A., a.r.p. *C.M.* 1958 Vet. Memorial Hosp., Quezon City, P. I.

Baxter, C. F., *W.S.* 1944; sr.r.s. *W.S.* 1946 Med. Arts Bldg., Sarasota. Fla.

Beaman, G. B., r.p. *Psychiat.* (*McL.*) 1936 63 Nichols Rd., Cohasset

BECK, H. B., *Trustee* 53 State

Beck, Kathryn S., r.p. *Psychiat.* (*McL.*) 1962 95 Coolidge, Brookline

BECK, W. S., assoc. p. M. G. H.

Bedell, R. F., *C.M.* 1958 1557 24th, Boulder, Colo.

Bedell, W. C., *E.S.* 1945 168 S. Cherry, Poughkeepsie, N. Y.

BEECHER, H. K., c. *An.* (*W.S.* 1934); a.r.s. *W.S.* 1936 M. G. H.

Beeman, C. B., *Path.* 1934 515 Lakeside Dr., Grand Rapids, Mich.

BEETHAM, W. P., s. *Oph.* 108 Bay State Rd.

BEHRINGER, G. E., a.s. (*W.S.* 1946); a.r.s. 1952 266 Beacon

BELL, E., cons. *Biophys. N.S.* M. G. H.

Bell, G. O., *W.M.* 1936 Lahey Clinic

Bell, James P., a.r.s. *Or.* 1959 McBride Clinic, 605 N.W. 10th, Oklahoma City, Okla.

Bell, John F., *Or.* 1941 115 Colchester Ave., Burlington, Vt.

Bell, John W., *E.S.* 1946 Vet. Adm. Hosp., Seattle, Wash.

BELL, M. H., a.r.s. *Or.* M. G. H.

BELL, N. W., a. sociol. and c. *Soc. Sc.* (*McL.*) McLean Hosp., Belmont

BELLINGER, M. J., clin. assoc. *S.* 114 Waltham, Lexington; M. G. H.

BELSASSO-PRISTER, G., a.r.p. *Psychiat.*; r.p. *Psychiat.* (*McL.*) 1963 M. G. H.

BENDA, C. E., a. psychiat. 111 Pleasant, Arlington

Bendheim, O. L., *W.M.* 1938 5051 N. 34th, Phoenix, Ariz.

BENDIXEN, H. H., an. M. G. H.

BENEDICT, E. B., *Bd. of Cons.* (*W.S.* 1926) M. G. H.

BENEDICT, PATRICIA H., a. *M.* M. G. H.

Bengle, A. L., Jr., *E.S.* 1947; c.r.p. *An.* 1951 2217 Webster, San Francisco, Calif.

Bennett, C. B., *Or.* 1923 1122 University Ave., Berkeley, Calif.

BENNETT, DORIS R., clin. assoc. *C.* (*C.M.* 1951); a.r.p. *C.M.* 1952 340 Pleasant, Malden

Bennett, Lillian F., *C.M.* 1946 2299 19th Ave., San Francisco, Calif.

Bennett, W., *M.* 1948; a.r.p. 1949 340 Pleasant, Malden

BERENBERG, W., cons. *C.* Children's Med. Center

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Berg, H. W., r.p. *D.* 1936 Brigham Hall Hosp., Canandaigua, N. Y.

Berg, R. L., *M.* 1944; c.r.p. 1950 Strong Memorial Hosp., Rochester, N. Y.

Berkheimer, G. A., r.s. *Or.* 1941 325 N. Front, Harrisburg, Pa.

Berlow, S., *C.M.* 1951; c.r.p. *C.M.* 1954 710 E. Silver Spring Dr., Milwaukee, Wis.

BERNSTEIN, N. R., a. psychiat.; a.r.p. *Psychiat.* 1954 M. G. H.

BEUSCHER, RUTH B., a. attend. psychiat. (*McL.*) 1419 Beacon, Brookline

Bickley, D. W., *W.M.* 1936 2001 Kimball Ave., Waterloo, Iowa

Bidwell, R. LeR., II, *E.S.* 1943; r.s. *N.S.* 1949 31 Bramhall, Portland, Maine

Bienvenu, L. J., a.r.p. *D.* 1951 1426 Elm, Manchester, N. H.

Bigelow, F. S., *E.M.* 1943; a.r.p. 1947 Boston City Hosp.

Billig, H. E., Jr., *Or.* 1935 Billig Clinic, 139 S. Alvarado, Los Angeles, Calif.

BINDER, S. C., a.r.s. (*S.* 1961) M. G. H.

BINGER, C. A. L., hon. p. (*E.M.* 1915) M. G. H.

Binion, J. T., *M.* 1953; a.r.p. 1954 3707 Gaston Ave., Dallas, Tex.

BINSTOCK, W. A., a. attend. psychiat. (*McL.*) 51 Brattle, Cambridge

BIRD, K. T., a.p. (*M.* 1944) M. G. H.

Bisgard, J. D., *W.S.* 1924 44th and Farnum, Omaha, Nebr.

BISHOP, J. M., a.r.p. (*M.* 1963) M. G. H.

Bishop, R. C., *M.* 1945; a.r.p. 1949 Simpson Memorial Inst., Ann Arbor, Mich.

Bixby, H. I., *W.S.* 1924 Sippewissett Rd., Falmouth

Black, P. H., *M.* 1957; r.p. 1961 National Inst. of Health, Bethesda, Md.

Blade, W. R., r.p. *R.* 1958 1510 Seabright Ave., Santa Cruz, Calif.

Blades, J. F., *N.S.* 1937 810 W. Franklin, Richmond, Va.

BLAND, E. F., cons. v.p. (*E.M.* 1929) M. G. H.

BLANE, H. T., assoc. psychol. M. G. H.

BLANK, I. H., assoc. biochem. *D.* M. G. H.

BLENNERHASSETT, J. B., a.r.p. *Path.* M. G. H.

Bliss, H. A., *M.* 1945; a.r.p. 1947 Univ. of Illinois Med. Sch., Chicago, Ill.

BLOCH, K. J., a. *M.*; r.p. 1961
M. G. H.
Block, G. L., r.s. *U.* 1950
Doctor's Bldg., Cincinnati, Ohio
Blodgett, F. M., *C.M.* 1946; c.r.p. *C.M.* 1950
Yale Univ. Sch. of Med., New Haven, Conn.
Blodgett, W. H., *Or.* 1940
603 Kales Bldg., Detroit, Mich.
Bloomberg, W., r.p. *N.* 1931
State Office Bldg., Hartford, Conn.
Bloomer, E., *E.S.* 1917
500 173rd Ave., St. Petersburg, Fla.
Bloomfield, D. K., r.p. 1957
Western Reserve Univ. Sch. of Med., Cleveland, Ohio
Blunden-Morris, Dulcie E., a.r.p. *An.* 1953
306 Patterson Ct., Takoma Pk., Md.
BOCK, A. V., hon. p. (*W.M.* 1917); sr.h.p. *W.M.* 1924
74 Mount Auburn, Cambridge
Boger, W. P., a.r.p. 1942
McNeil Labs., Camp Hill Rd., Fort Washington, Pa.
Bohrer, S. P., *S.* 1959; r.p. *R.* 1963
Hammersmith Hosp., London, England
Boivin, M. J., a.r.p. *An.* 1961
military service
Boller, C., *E.M.* 1929
267 Alexander, Rochester, N. Y.
BONNER, FRANCES J., a. psychiat.
160 Lake Ave., Newton Centre
Boone, J. A., *C.M.* 1934
Medical College Hosp., 55 Doughty, Charleston, S. C.
BOOTH, N. A., a. oral s. 82 Day, Norwood
Bora, F. W., Jr., sr.r.s. *Or.* 1961
15 Hannum Dr., Ardmore, Pa.
Borden, R. P., *W.S.* 1914
Langley, British Columbia, Canada
Bornstein, A. M., a.r.p. *Path.* 1960
2319 Woodford Pl., Louisville, Ky.
Bornstein, D. L., r.p. 1962 M. G. H.
Bornstein, I. D., a.r.p. *D.* 1961
500 E. 33rd, Chicago, Ill.
BORUCHOFF, S. A., a. *Oph.*
192 Bay State Rd.
Bosco, H. F., *Dn.* 1946
300 Main, New Britain, Conn.
BOSTIC, W. C., III, a.r.s. *Or.*
M. G. H.
Boutwell, H. K., *E.M.* 1905
201 St. Paul, Brookline
Bowden, L., *E.S.* 1941; a.r.s. 1942
177 E. 79th, New York, N. Y.
Bowditch, H., *W.M.* 1911
12 Pine, Peterborough, N. H.
Bower, W. H., r.p. *Psychiat.* (*McL.*) 1949
Colorado State Hosp., Pueblo, Colo.
BOYD, R. J., a.r.s. *Or.* M. G. H.
Boyden, A. M., *W.S.* 1934
1216 S. W. Yamhill, Portland, Oreg.
Boyes, J. H., *Path.* 1930
1401 S. Hope, Los Angeles, Calif.
Brace, Ann R., *S.* M. G. H.
BRACE, L. D., *Trustee* 67 Milk
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BRAGG, R. L., a. psychiat.
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BRAMAN, CONSTANCE L., a. to gen. dir. *P.H.* (*S.N.* 1932) M. G. H.
Brandstrup, N. E., a.r.p. *C.M.* 1959
8 Juliane Mariesvej, Copenhagen, Denmark
Brannon, L. C., r.s. *N.S.* 1955
10 S. Calhoun, Greenville, S. C.
BRATT, H. A., dn.s.
8 Belgrade Ave., Roslindale
Braudo, J. L., a.r.p. *C.M.* 1953
904 Med. Center, Jeppe, Johannesburg, South Africa
BRAZELTON, T. B., assoc. pediat.; a.r.p. *C.M.* 1947 51 Brattle, Cambridge
BREED, F. B., a.s. *Oph.*
Danversport
Breer, R. D., a.r.p. *C.M.* 1957
17 Haynes, Manchester, Conn.
Brendler, S. J., sr.r.s. *N.S.* 1953
New Eng. Center Hosp.
BRENDZE, R. B., a. *Or.*
218 Commonwealth Ave.
Brenizer, A. G., Jr., *W.S.* 1942; r.s. 1944
1012 Kings Dr., Charlotte, N. C.
Brenner, J. H., r.p. *Psychiat.* (*McL.*) 1961
41 Tennyson Rd., Wellesley Hills
Brent, R. L., *C.M.* 1955
Jefferson Med. Coll. of Philadelphia, Philadelphia, Pa.
Breslin, J. E., *C.M.* 1938
Yacht *Noa Noa,* Dinner Key Marina, Miami, Fla.

Breslow, A., a.r.p. *Path.* 1959
George Washington Univ. Hosp., Washington, D. C.

Bresnahan, J. F., past a. dir.
4670 Pine, Omaha, Nebr.

BREWSTER, H. H., assoc. psychiat. (*W.M.* 1940) Zero Emerson Pl.

Brewster, W. R., Jr., a.r.p. *An.* 1950
Univ. of Florida, Gainesville, Fla.

Bridge, E. M., *C.M.* 1927
Univ. of Buffalo, Buffalo, N. Y.

BRIEFER, C., Jr., r.p. (*M.* 1959) M. G. H.

Brigham, F. G., *E.M.* 1910
27 Devon Rd., Chestnut Hill

Brindley, C. O., *M.* 1950
National Inst. of Health, Bethesda, Md.

Brock, B. L., *C.M.* 1923
Southeast Florida Tuberculosis Hosp., Lantana, Fla.

BROCKHURST, R. J., a.s. *Oph.* (*M.* 1948) 99 W. Cedar

BRODERICK, T. F., Jr., clin. assoc. *Or.;* sr.r.s. *Or.* 1947
697 Cambridge, Brighton

BRODKEY, J. S., a.r.s. *N.S.* M. G. H.

Brooks, P. T., *E.S.* 1943; a.r.s. 1949
Walla Walla Clinic, Walla Walla, Wash.

Broome, R. A., Jr., *M.* 1944
3 W. Columbia, Orlando, Fla.

Brown, C. S., a.r.p. *D.* 1952
8218 Wisconsin Ave., Bethesda, Md.

Brown, F. Bert, *Or.* 1937
22 W. Gaston, Savannah, Ga.

BROWN, FLORENCE GIBERTI, exec. a. *B.M.* (*S.N.* 1929) M. G. H.

Brown, L., *N.S.* 1938
316 State, Bangor, Maine

Brown, N. K., *M.* 1957; a.r.p. 1958
King County Hosp., Seattle, Wash.

Brown, R. Gordon, *Path.* 1942
122 S. Michigan Ave., Chicago, Ill.

Brown, Robert H., *E.S.* 1944; j.r.s. 1945 U.S. Naval Hosp., Bethesda, Md.

Brown, Robert K., *W.S.,* 1939; r.s. 1942 1624 Gilpin, Denver, Colo.

BROWN, T., v.s. *Or.;* r.s. *Or.* 1949 M. G. H

BROWNELL, G. L., applied physicist *M.* M. G. H.

Brownsberger, C. N., a.r.p. 1957
4535 46th, N.E., Seattle, Wash.

Brues, A. M., *E.M.* 1932
Argonne National Lab., Lemont, Ill.

BUCHANAN, D., r.p. *Psychiat.* (*McL.*)
McLean Hosp., Belmont

Buchanan, R. N., Jr., r.p. *D.* 1941
1905 Hayes, Nashville, Tenn.

Buchanan, W. R., Jr., *C.M.* 1955; r.p. *C.M.* 1957
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BUCHER, NANCY L. R., assoc. biol. *M.* M. G. H.

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Assumption College, Worcester

BUCKLEY, M. J., Jr., a.r.s. (*S.* 1959) M. G. H.

BUDSON, R. D., r.p. *Psychiat.* (*McL.*)
McLean Hosp., Belmont

Bull, E. C., *Or.* 1917
384 Post, San Francisco, Calif.

Bullard, C. W., *W.S.* 1918
194 High, Newburyport

BULLIVANT, S., a. biophys. *N.S.* M. G. H.

BULLWINKEL, B., a.r.p. *An.* (*S.* 1957); a.r.s. 1961 M. G. H.

Bunker, J. P., *E.S.* 1946; a.r.p. *An.* 1950 Stanford Med. Center, Palo Alto, Calif.

Bunker, S. M., past a. dir. Westwood

BURBANK, C. B., clin. assoc. *S.* (*W.S.* 1939); r.s. 1942
94 Pleasant, Arlington;
270 Commonwealth Ave.

Burden, C. E., a.r.p. *C.* 1961
1 North, Bath, Maine

BURGIN, L. B., pediat. (*C.M.* 1932); r.p. *C.M.* 1935
151 Kent, Brookline

BURKE, J. F., a.s. (*S.* 1952); r.s. 1957 M. G. H.

Burke, M. F., a.r.s. 1961
712 D, San Rafael, Calif.

BURKE, R. E., a.r.p. *N.* (*M.* 1962); a.r.p. 1963 M. G. H.

Burland, G. R., a.r.s. 1953
Olds, Alberta, Canada

Burnett, C. H., c.r.p. 1946
Univ. of North Carolina Sch. of Med., Chapel Hill, N. C.

Burnett, F. L., *S.S.* 1908
Procter, Manchester

BURNETT, JEAN B., a. biochem. *D.* M. G. H.

Burns, E. M., r.p. *Psychiat.* 1935
1920 N.W. Johnson, Portland, Oreg.

BURR, F. H., *Trustee* 50 Federal

BURRAGE, WALTER S., *Bd. of Cons.* (*E.M.* 1927) 330 Dartmouth
Burrage, William C., *E.M.* 1941; a.r.p. 1946 57 Deering, Portland, Maine
BURRINGTON, J. D., a.r.s. (*S.* 1961) M. G. H.
Burrow, J. G., *Dn.* 1948; a.r.s. *Dn.* 1949 507 Main, Worcester
Burwell, C. S., *W.M.* 1919; h.p. *W.M.* 1921 H. M. S.
Bush, R. D., *W.S.* 1943 203 Commonwealth Ave.
BUTLER, A. M., *Bd. of Cons.* Tashmoo Farm, Vineyard Haven, Martha's Vineyard
Butler, W. T., *M.* 1959; a.r.p. 1960 5903 Greenlawn Dr., Bethesda, Md.
Buttles, R. V., r.p. *Path.* 1950 Heaton Hosp., Montpelier, Vt.
Byers, R. K., *E.M.* 1923 Children's Med. Center
Byrnes, R. L., a.r.p. *Path.* 1954 31870 Coast Highway, S. Laguna, Calif.
CAIN, A. J., a. psychiat. (*McL.*) McLean Hosp., Belmont
Calhoun, F. P., Jr., *E.M.* 1938 478 Peachtree, N.E., Atlanta, Ga.
Calkins, E., c.r.p. 1952 Buffalo Gen. Hosp., Buffalo, N. Y.
CALLISON, J. R., a.r.s. M. G. H.
CALNAN, A. F., a. *Oph.* 534 Beacon
Cameron, H. S., sr.r.s. *Or.* 1957 450 Central Ave., London, Ontario, Canada
Campbell, C. R., r.p. *Path.* 1955 100 S. San Mateo Dr., San Mateo, Calif.
Campbell, J. L., r.p. *An.* 1940 Republic Bldg., Denver, Colo.
CANELLOS, G. P., a.r.p. (*S.* 1961) M. G. H.
CANER, G. C., *Bd. of Cons.* (*W.M.* 1924) 63 Marlborough
Canlas, B. D., Jr., r.p. *Path.* 1956 Coll. of Med., Univ. of the Philippines, Manila, P. I.
CANNON, B., v.s. M. G. H.
Cannon, J. A., *E.S.* 1944; a.r.s. *E.S.* 1946 Univ. of California Med. Center, Los Angeles, Calif.
Cantlon, E. L., *E.S.* 1938; r.s. *W.S.* 1941 220 S. Virginia, Reno, Nev.
Cantlon, J. V., *E.S.* 1935; r.s. *E.S.* 1938 220 S. Virginia, Reno, Nev.
Cantor, H. E., *C.* M. G. H.
CAPLAN, G., psychiat. 93 Fresh Pond Parkway, Cambridge; Harvard Sch. of Public Health
CAPLAN, L. M., a. psychiat. (*McL.*); r.p. *Psychiat.* (*McL.*) 1960 Thom Clinic, 315 Dartmouth
Capland, L., r.p. *D.* 1940 1680 Meridian Ave., Miami Beach, Fla.
Capps, J. A., *E.M.* 1896 21 Woodley Rd., Winnetka, Ill.
Capps, R. B., *C.M.* 1931 and *E.M.* 1933 122 S. Michigan Ave., Chicago, Ill.
Capps, S. C., *Path.* 1946; a.r.p. *Path.* 1949 Butterworth Hosp., Grand Rapids, Mich.
Cardenal, F. A., a.r.s. *Or.* 1959 address unknown
Carey, J. M., *W.S.* 1946 2221 N.W. 54th, Oklahoma City, Okla.
Carey, R.W., *M.* 1960; a.r.p. 1961 M. G. H.
Carey, T. A., a.r.p. *R.* 1961 1696 Monaco Parkway, Denver, Colo.
Carmichael, Miriam W., a.r.p. *N.* 1956 Med. Coll. of Virginia, Richmond, Va.
Carmody, J. T. B., a.r.s. *N.S.* 1936 65 Elm, Worcester
CARNES, H. A., a. oral s. 29 Bay State Rd.
CARNEY, H. J., a. oral s. 403 Commonwealth Ave.
Carroll, R. E., *E.S.* 1943; r.s. *Or.* 1944 Columbia-Presbyterian Med. Center, New York, N. Y.
CARROLL, W. J. E., s. *Otolar.* 5 Chestnut, Arlington
Carson, P. C., r.s. *Or.* 1940 130 Maple, Springfield
CARTER, E. L., a. *S.* (*S.* 1954); a.r.s. 1960 M. G. H
CARTER, F., a. psychiat.; r.p. *Psychiat.* (*McL.*) 1948 51 Brattle, Cambridge
Carter, George B., r.p. *R.* 1962 Parkland Memorial Hosp., Dallas, Tex.
Carter, George H., *M.* 1943; a.r.p. 1947; r.p. *Psychiat.* 1948 Boston Univ.-Mass. Memorial Hosp. Med. Center
CARTER, J. R., Jr., r.p. (*M.* 1960) M. G. H.

CARTER, LUCILLE P., a. *Psychiat.*
1720 Beacon, Brookline
Carter, R. R., r.p. *N.* 1942
1020 S.W. Taylor, Portland, Oreg.
Cascario, N., Jr., *Dn.* 1944
36 N. 1st, Bangor, Pa.
Case, C. T., *W.S.* 1943
1402 Genesee, Utica, N. Y.
CASS, J. W., Jr., *Bd. of Cons.* (*W.M.* 1931) 87 Chestnut
CASTEN, V. G., s. *Oph.* (*N.* 1929) 412 Beacon
Castle, W. B., *E.M.* 1923
Boston City Hosp
CASTLEMAN, B., c. *Path.* (*Path.* 1932); r.p. *Path.* 1935 M. G. H.
CATLIN, R., Jr., r.p. *Psychiat.* (*McL.*); a.r.p. *Psychiat.* 1962
McLean Hosp., Belmont
Catterson, L. F., *C.M.* 1924
107½ High Ave., West, Oskaloosa, Iowa
CAULFIELD, J. B., a. path. M. G. H.
CAVANAUGH, J. J. A., a. pediat.
12 W. Central, Natick
CAVANAUGH, T., assoc. s. *Oph.*
403 Commonwealth Ave.
CAVE, E. F., cons. v.s. *Or.* (*E.S.* 1926 and *Or.* 1928) M. G. H.
CAVINESS, V. S., Jr., a.r.p. (*M.* 1963) M. G. H.
Cecil, L. M., *M.* 1950
710 C, San Rafael, Calif.
CHAFETZ, M. E., assoc. psychiat. M. G. H.
Chaffin, G. L., *E.S.* 1918; h.s. *W.S.* 1921 and *U.* 1921
1136 W. 6th, Los Angeles, Calif.
CHALFIN, R. M., r.p. *Psychiat.* (*McL.*) McLean Hosp., Belmont
CHALPIN, G., a. attend. psychiat. (*McL.*) 130 Longwood Ave., Brookline
Chamberlain, J. M., *N.S.* 1934 and *W.S.* 1937 23 E. 79th, New York, N. Y.
Chamberlin, H. R., *C.M.* 1949
Univ. of North Carolina Sch. of Med., Chapel Hill, N. C.
Chamberlin, R. W., Jr., a.r.p. *C.M.* 1959
Univ. of Kentucky Med. Center, Lexington, Ky.
Chandler, H. P., a.r.s. *Or.* 1962
Children's Med. Center
Chaplin, H., Jr., *M.* 1948; r.p. 1950
Washington Univ. Sch. of Med., St. Louis, Mo.
Chapman, C. Ethelyn, *An.* 1937; r.p. *An.* 1938 Vet. Adm. Hosp., Oakland, Calif.
CHAPMAN, E. M., p. (*W.M.* 1931); c.r.p. 1934 M. G. H
CHAPMAN, R. B., a. *Oph.*
743 High, Dedham
Charash, L. I., a.r.p. *C.M.* 1952
146 Mount Joy Ave., Freeport, Long Island, N. Y.
Chase, J. S., *E.S.* 1940
392 Pleasant, Brockton
CHASE, T. N., a.r.p. *N.* M. G. H.
CHASEN, MIGNON C., a. attend. psychiat. (*McL.*)
111 Cedar, Newton Centre
CHASIN, W. D., a. *Otolar.*
Mass. E. & E. Inf.
Cheer, Sheo-Nan, *E.M.* 1922
Newton Baker Vet. Adm. Center, Martinsburg, W. Va.
Cheney, M. C., *W.M.* 1918
2560 Bancroft Way, Berkeley, Calif.
Chernoff, A. I., *M.* 1948
Memorial Res. Center, Univ. of Tennessee, Knoxville, Tenn.
CHISHOLM, J. F., Jr., a.s. *Oph.*
330 Dartmouth
Chittick, R. A., r.p. *Psychiat.* (*McL.*) 1938 Vermont State Hosp., Waterbury, Vt.
CHORAS, P. T., a.r.p. *Psychiat.*; r.p. *Psychiat.* (*McL.*) 1962 M. G. H.
CHRIST, J., a. attend. psychiat. (*McL.*)
51 Brattle, Cambridge
Christensen, W. R., *W.M.* 1943
Salt Lake County Gen. Hosp., Salt Lake City, Utah
Christenson, W. N., *M.* 1949; a.r.p. 1950
New York Hosp., New York, N. Y.
CHRISTMAN, G., a. oral s. (*Dn.* 1951); a.r.s. *Dn.* 1952
403 Commonwealth Ave.
CHURCHILL, E. D., *Bd. of Cons.* (*W.S.* 1922); h.s. 1923
269 Prospect, Belmont
CHUTE, R., *Bd. of Cons.* (*E.S.* 1929)
Vet. Adm. Hosp.,
150 S. Huntington Ave., Jamaica Plain
Ciano, J. F., *Dn.* 1954
1159 Hancock, Quincy
CICCARELLI, E. C., a. *Oph.*
66 Lewis Bay Rd., Hyannis
CIVANTOS, F., a.r.p. *Path.* M. G. H.
Claiborne, T. S., *W.M.* 1934
384 Peachtree, N.E., Atlanta, Ga.

Claman, H. N., r.p. 1958
Univ. of Colorado Med. Center, Denver, Colo.

Clapp, S., *N.S.* 1939
3921 Ingomar, N.W., Washington, D. C.

Clark, Dean A., past gen. dir.
Grad. Sch. of Public Health, Univ. of Pittsburgh, Pittsburgh, Pa.

Clark, DeWitt S., *E.S.* 1915
2 Oliver, Salem

CLARK, J. G., Jr., a. psychiat. (*McL.*); r.p. *Psychiat.* 1955; r.p. *Psychiat.* (*McL.*) 1958 McLean Hosp., Belmont

Clark, L. D., *M.* 1948; r.p. *Psychiat.* 1950
Salt Lake County Gen. Hosp., Salt Lake City, Utah

Clark, M. M., *Or.* 1928
38 N. Goodman, Rochester, N. Y.

CLARK, R. J., *Bd. of Cons.* (*W.M.* 1933) 15 Dix, Winchester

Clark, S. L., Jr., *M.* 1950
Washington Univ. Sch. of Med., St. Louis, Mo.

CLARK, W. H., Jr., assoc. path. M. G. H.

Clarke, B. G., *E.M.* 1943
New Eng. Center Hosp.

CLAY, C. L., a.dir. M. G. H.

Clement, J. D., Jr., *W.S.* 1944
77 Essex, Bangor, Maine

Clement, S. P., Jr., *M.* 1956
1266 4th, Sarasota, Fla.

CLIFFORD, M. H., a.p.; a.r.p. 1935
Vet. Adm. Hosp., Rutland Heights

CLIFFORD, S. H., cons. *C.* (*E.M.* 1927) Boston Lying-in Hosp.

CLINE, H. S., a. *Psychiat.;* a. attend. psychiat. (*McL.*); a.r.p. *Psychiat.* 1956 185 Dean Rd., Brookline

Cline, J. W., Jr., *E.S.* 1927
490 Post, San Francisco, Calif.

CLOUGH, J. M., a.s. *Oph.*
266 Beacon

CLOUSE, M. E., a.r.p. *R.* M. G. H.

Clowes, G. H. A., Jr., a.r.s. 1948
Cleveland Metropolitan Gen. Hosp., Cleveland, Ohio

Cobb, C. A., Jr., r.p. *N.* 1948
Med. Arts Bldg., Nashville, Tenn.

COBB, S., hon. p.; cons. psychiat. (*McL.*) M. G. H.

Cobbs, B. W., Jr., *M.* 1953; r.p. 1955
Emory Univ. Clinic, Emory University, Ga.

COCHRAN, W. D., a. pediat.; a.r.p. *C.M.* 1954 Boston Lying-in Hosp.

Coe, R. C., *S.* 1951; r.s. 1955
1115 Columbia, Seattle, Wash.

COGAN, D. G., c. *Oph.* and dir. Howe Lab. Mass. E. & E. Inf.

Coggeshall, H. C., *W.M.* 1935
3710 Swiss Ave., Dallas, Tex.

Coggins, C. H., *M.* 1959
627 Barron Ave., Palo Alto, Calif.

COGSWELL, THELMA B., exec. a. *M.G.H. Clin.* (*S.N.* 1926) M. G. H.

COHEN, A., clin. assoc. *C.*
1093 Beacon, Brookline

Cohen, I. J., *C.M.* 1931
Vet. Adm. Central Office, Washington, D. C.

Cohen, J., a.r.s. *Or.* 1950
Children's Med. Center

COHEN, MANDEL E., n.; a.r.p. *Psychiat.* 1936 M. G. H.

COHEN, MORRIS, cons. *Or.*
M.I.T., Cambridge

COHEN, N. R., a.r.p. (*M.* 1962) M. G. H.

COHEN, R. B., assoc. path.; r.p. *Path.* 1953 M. G. H.

Cohn, R. B., *Path.* 1933 and *E.S.* 1936; r.s. *N.S.* 1934 and *W.S.* 1937
Stanford Med. Center, Palo Alto, Calif.

Cohn, Z. A., *M.* 1954; a.r.p. 1955
Rockefeller Inst. Med. Res., 66th and York Ave., New York, N. Y.

COLBY, F. H., *Bd. of Cons.* (*W.S.* 1920) 27 Chestnut, Brookline

Cole, C. H., *Path.* 1935
111 W. Main, Waterbury, Conn.

COLE, E. M., n.; r.p. *N.* 1932; r.p. *Psychiat.* (*McL.*) 1934 M. G. H.

Cole, M., a.r.p. *N.* 1960
2608 Tilden, Washington, D. C.

COLEMAN, R. M., r.p. *Psychiat.* (*McL.*) McLean Hosp., Belmont

Coles, M. R., a.r.p. *Psychiat.* 1956; r.p. *Psychiat.* (*McL.*) 1957 M. G. H.

Coley, Mary S., *C.M.* 1955
63 Dauntless Lane, Hartford, Conn.

Coller, F. A., *W.S.* 1914; h.s. *W.S.* 1915 St. Joseph's Mercy Hosp., Ann Arbor, Mich.

Collins, D. L., Jr., *S.* 1955; a.r.s. 1961
Professional Bldg., Kannapolis, N. C.

Collins, G. H., a.r.p. *Path.* 1959
Coll. of Med., Univ. of Florida, Gainesville, Fla.

Collins, H. Douglas, *M.* 1953; r.p. 1955 8 N. Main, Caribou, Maine

Collins, Harvey S., *M.* 1944; a.r.p. 1945
Memorial Hosp., 444 E. 68th, New York, N. Y.

Collins, R., *E.S.* 1933
5111 8th Rd., South, Arlington, Va.

Colokathis, P., a.r.s. *Or.* 1954
146 Tarrytown Rd., Manchester, N. H.

Colpitts, G. E., r.p. *Path.* 1952
Royal Victoria Hosp., Barrie, Ontario, Canada

Colquhoun, J. B., *Or.* 1927
85 Spring, Melbourne, Australia

Colwell, H. S., *E.M.* 1916
158 Whitney Ave., New Haven, Conn.

COMB, D. G., a. biochem. *M.* M. G. H.

Comly, H. H., *C.M.* 1944
951 E. Lafayette, Detroit, Mich.

Compton, D. W., r.p. *An.* 1946
905 E. Columbia, Seattle, Wash.

Conley, J. E., *E.S.* 1941; a.r.s. 1942
425 E. Wisconsin Ave., Milwaukee, Wis.

CONNELLY, J. P., a. pediat. (*C.M.* 1957); c.r.p. *C.* 1961 M. G. H.

Conrad, Elizabeth, a.r.p. *C.M.* 1945
2240 Cloverdale Ave., Winston- Salem, N. C.

CONSTABLE, J. D., a. *S.* (*S.* 1953); r.s. 1959 M. G. H.

CONWAY, R. E., a.r.s. *Or.* M. G. H.

Cook, C. D., a.r.p. *C.M.* 1949
Children's Med. Center

Coolidge, J. C., *C.M.* 1945
141 Coolidge Hill, Cambridge

Coolidge, T. B., *W.M.* 1929
947 E. 58th, Chicago, Ill.

Coombs, F. S., a.r.p. 1937
275 W. Federal, Youngstown, Ohio

Coons, A. H., *E.M.* 1939 H. M. S.

Cooperman, S., a.r.p. *Path.* 1961 M. G. H.

COPE, O., v.s. (*W.S.* 1930); r.s. *W.S.* 1932 M. G. H.

CORNING, H. B., a.r.p. (*M.* 1962) M. G. H.

Cosby, R. S., *E.M.* 1940
111 Congress, Pasadena, Calif.

COSER, ROSE L., assoc. sociol. (*McL.*) McLean Hosp., Belmont

COSGROVE, W. L., a.dn.s.
4 Waltham, Lexington

Cotter, W. C., r.s. *N.S.* 1957
110 Lockwood, Providence, R. I.

Cotzias, G. C., *M.* 1944; r.p. *N.* 1945; a.r.p. 1946
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COVITZ, E. E., a.s. *Oph.*
475 Commonwealth Ave.

Cozen, L., *Or.* 1938
6221 Wilshire Blvd., Los Angeles, Calif.

CRABTREE, H. H., hon.s. (*E.S.* 1913); h.s. *W.S.* 1914 and *U.* 1919
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Craddock, C. G., Jr., a.r.p. *Psychiat.* 1950 Univ. of California Med. Center, Los Angeles, Calif.

Craige, E., *M.* 1943; r.p. 1948
North Carolina Memorial Hosp., Chapel Hill, N. C.

Crandell, W. B., a.r.s. 1941
Vet. Adm. Hosp., White River Junction, Vt.

CRARY, L. S., Jr., a.r.s. M. G. H.

Crawford, E. S., *E.S.* 1947; r.s. 1954
Baylor Univ. Coll. of Med., Houston, Tex.

Crawford, H. B., *Or.* 1931; r.s. *Or.* 1932 15 Prince, Rochester, N. Y.

CRAWFORD, J. D., pediat. (*C.M.* 1945); c.r.p. *C.M.* 1949 M. G. H.

CROCKETT, D. C., deputy to gen. dir. M. G. H.

Croll, Diane, r.p. *Path.* 1948
Vet. Adm. Hosp., Oakland, Calif.

Crone, N. L., *W.M.* 1933; r.p. 1937
Harvard Grad. Sch. of Business Adm.

CRONIN, T. P., a.s. *Oph.*
94 Pleasant, Arlington

CRONKHITE, L. W., Jr., *Bd. of Cons.* (*M.* 1950); r.p. 1953
Children's Med. Center

Crystal, D. K., *W.S.* 1942; r.s. *W.S.* 1946 1110 Harvard Ave., Seattle, Wash.

Cu, W. B., a.r.p. *Psychiat.* 1961; r.p. *Psychiat.* (*McL.*) 1962
Roosevelt Hosp., New York, N. Y.

Cudney, E. B., *Or.* 1926
Pontiac Motor Co., Pontiac, Mich.

CULVER, P. J., assoc. p. (*E.M.* 1942) M. G. H.

Cummer, F. H., Jr., sr. r.p. *Psychiat.* (*McL.*) 1950
Boston City Hosp.

Cunningham, T. D., *W.M.* 1918 and *C.M.* 1920
Republic Bldg., Denver, Colo.

CURRENS, J. H., a. *M.* M. G. H.

Currie, R. A., *S.* 1950; a.r.s. 1954
West Virginia Univ. Med. Center, Morgantown, W. Va.

CURTIN, R. R., clin. assoc. *S.* (*S.* 1953); a.r.s. 1957 Exeter Clinic, Exeter, N. H.

CURWEN, W. L., a. *D.*
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Cutts, F. B., *W.M.* 1934
315 Olney, Providence, R. I.

DAGGETT, W. M., Jr., a.r.s. (*S.* 1959) M. G. H.

Dahl, L. K., c.r.p. 1947
Med. Dept., Brookhaven National Lab., Associated Universities, Inc., Upton, Long Island, N. Y.

DALAND, E. M., hon. s. (*W.S.* 1918)
483 Beacon

D'Alessandro, G. L., a.r.p. *An.* 1950
275 Forest Ave., Glen Ridge, N. J.

Dalrymple, W., *M.* 1947
University Health Services, Princeton Univ., Princeton, N. J.

DALTON, J. C., a. *M.*
330 Dartmouth

DAMIANI, C. R., clin. assoc. *D.*; r.p. *D.* 1946 16 Norwich, Worcester

Damon, A., *M.* 1952
Harvard Sch. of Public Health

D'ANGIO, G. J., cons. *R.*
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DANIELS, HADASSAH S., a. attend. psychiat. (*McL.*) 26 Lyman Rd., Chestnut Hill

Dann, D. S., h.p. *R.* 1922
701 E. 63rd, Kansas City, Mo.

DARLING, R. C., a. *S.* (*C.M.* 1954); a.r.s. 1958 1180 Beacon, Brookline

DARROW, R. A., res. assoc. *Biochem. Res.* M. G. H.

d'AUTREMONT, C. C., a. attend. psychiat. (*McL.*); r.p. *N.* 1948
Children's Med. Center

Davanloo, H., a.r.p. *Psychiat.* 1959
Montreal Gen. Hosp., Montreal, Canada

David, J. R., *M.* 1956; r.p. 1961
New York Univ. Med. Sch., New York, N. Y.

David, S. D., *Or.* 1922
1215 Walker Ave., Houston, Tex.

Davidoff, F. F., *M.* 1960; a.r.p. 1961
5823 Greenlawn Dr., Bethesda, Md.

DAVIDSON, G. E., a. *Psychiat.* M. G. H

DAVIES, J. A. V., *Bd. of Cons.*
319 Longwood Ave.

Davis, B. M., a.r.s. *W.S.* 1942
USPHS, Washington, D. C.

Davis, James M., *S.* 1948; a.r.s. 1952
1661 Riverside Ave., Jacksonville, Fla.

Davis, John M., *C.* 1961
100 York, New Haven, Conn.

DAWES, D. C., a. psychiat.; r.p. *Psychiat.* (*McL.*) 1939
51 Brattle, Cambridge

Dawson, C. W., *Or.* 1936
1275 Olentangy River Rd., Columbus, Ohio

DeBLOIS, ELIZABETH, a.s. *Otolar.*
247 Commonwealth Ave.

DeBusk, F. L., *C.M.* 1947; a.r.p. *C.M.* 1950 1750 N. Palafox, Pensacola, Fla.

DECKER, B. L., assoc.p. (*C.M.* 1931 and *W.M.* 1932) 75 Mount Auburn, Cambridge

Defalco, A. J., *S.* M. G. H.

DEGEN, J. W., a. dir. M. G. H.

DeGROOT, L. J., a. *M.*; r.p. 1957 M. G. H.

DEL GIUDICE, P. A., a.r.p. *An.* M. G. H.

DeLONG, W. B., a.r.s. (*S.* 1962) M. G. H.

DeLORME, T. L., a.s. *Or.*; sr.r.s. *Or.* 1955 M. G. H.

d'Elseaux, F. C., *W.M.* 1929
37 Marlborough

de MARNEFFE, F. L. A., dir. (*McL.*); a.r.p. *Psychiat.* 1952
McLean Hosp., Belmont

DEMING, RUTH, exec. a. *M. G. H. Clin.* (*S.N.* 1925) M. G. H.

de Mola, L. L., a.r.p. *Path.* 1960
Alcanfores 999, Miraflores, Lima, Peru

DEMPSEY, P. A., dn.s.
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Dennie, C. C., *D.* 1914
Professional Bldg., Kansas City, Mo.

Denton, Jane E., *M.* 1946; a.r.p. 1946
Main, Hopkinton

DePriest, O. S., III, *S.* 1955; a.r.s. 1961
military service

Derby, J. P., *Or.* 1925
20 Maple, Springfield

Derow, H. A., *Path.* 1928
1136 Beacon, Brookline
Derow, S., *Path.* 1931
925 Centre, Newton Centre
Derrick, C. C., *Path.* 1940 and *E.M.* 1942; r.p. *Path.* 1941
25 Maple, Springfield
DeSANCTIS, R. W., a. *M.* (*M.* 1956); r.p. 1960 M. G. H.
Detwiler, Robert C., a.r.s. *Or.* 1956
68 Charlton Ave., West, Hamilton, Ontario, Canada
Detwiler, Robert H., *C.M.* 1940
3120 N. 13th, Arlington, Va.
DEUTSCH, HELENE, *Bd. of Cons.*
44 Larchwood Dr., Cambridge
Devan, T. A., past a. dir.
325 19th Ave., N.E., St. Petersburg, Fla.
Dewey, E. B., *E.S.* 1921
Box 2029, Pebble Beach, Calif.
DeWILDE, H., clin. assoc. *Dn. M.*
403 Commonwealth Ave.
DEXTER, C. J., clin. assoc. *S.*
51 Brattle, Cambridge
Deykin, D., *M.* 1958
Beth Israel Hosp.
DIAMOND, L. K., cons. *C.*
Children's Med. Center
Dickersin, G. R., a.r.p. *Path.* 1957
Brockton Hosp., Brockton
Dickson, Carol C., *M.* 1948; *C.M.* 1949 127 W. 79th, New York, N. Y.
DICKSON, W. A., assoc. pediat. (*C.M.* 1946); a.r.p. *C.M.* 1947
75 Canton Ave., Milton
Diehl, Sylvia Davies, a.r.p. *C.M.* 1958
33 Maple Ave., Madison, N. J.
DIENES, L., hon. p. M. G. H.
Dillon, H. T., Jr., *Path.* 1958; a.r.p. *Path.* 1959
62 Butler, S.E., Atlanta, Ga.
Dillon, V. M., *Or.* 1932
2166 Hayes, San Francisco, Calif.
Dimon, J. H., III, sr.r.s. *Or.* 1960
1938 Peachtree Rd., N.W., Atlanta, Ga.
Diner, Wilma Canada, a.r.p. *Path.* 1951; r.p. *R.* 1954
Univ. of Arkansas Med. Center, Little Rock, Ark.
DINSMORE, P. R., a. psychiat. (*McL.*); r.p. *Psychiat.* (*McL.*) 1961
McLean Hosp., Belmont
DINSMORE, R. E., a.r.; a.r.p. *R.* 1961 M. G. H.
Ditmore, H. B., Jr., *S.* 1954; a.r.s. 1958 c/o H. B. Ditmore, Sr., Marshall, N. C.
DOBSON, ROSEMARY C., a.r.p. *C.* (*C.* 1963) M. G. H.
Dodd, R. B., a.r.p. *An.* 1950
Barnes Hosp., St. Louis, Mo.
DODGE, P. R., n. and pediat. M. G. H.
Dodge, R. S., a.r.s. *Or.* 1946
4767 Kahala Ave., Honolulu, Hawaii
Dodson, L. C., r.s. *P.H.* 1932
330 Allen, Owensboro, Ky.
Dohan, F. C., a.r.p. 1935
Hosp. of Univ. of Pennsylvania, Philadelphia, Pa.
Doisy, E. A., Jr., *M.* 1945
St. Louis Univ. Sch. of Med., St. Louis, Mo.
Dole, K. L., *E.S.* 1917
833 S. Flower, Los Angeles, Calif.
Dole, V. P., Jr., *E.M.* 1941
Rockefeller Inst. Med. Res., 66th and York Ave., New York, N. Y.
Donaghy, R. M. P., *N.S.* 1939; r.s. *N.S.* 1942 Mary Fletcher Hosp., Burlington, Vt.
Donald, J. H., *M.* 1947; a.r.p. 1948
Burns Bldg., Colorado Springs, Colo.
DONALDSON, D. D., a. *Oph.*
Mass. E. & E. Inf.
DONALDSON, G. A., v.s. (*E.S.* 1938); r.s. 1942 M. G. H.
Donnelly, E. W., r.p. *R.* 1961
Georgia Baptist Hosp., Atlanta, Ga.
Donner, R., a.r.p. *Path.* 1957
Pr. Hendriklaan 27, Amsterdam, Holland
DONOHUE, J. P., a.r.s. *U.* M. G. H.
Donovan, J. F., sr. r.s. *Or.* 1957
85 Jefferson, Hartford, Conn.
DOWLING, J. L., Jr., a. *Oph.*
207 Waterman, Providence, R. I.
Drachman, D. A., r.p. *N.* 1960
National Inst. of Health, Bethesda, Md.
Drake, E. H., a.r.s. 1945
18 Bramhall, Portland, Maine
Drake, T. G., a.r.p. 1937
114 N. Taylor Ave., St. Louis, Mo.
DREIER, T., Jr., r.p. *Psychiat.* (*McL.*); a.r.p. *Psychiat.* 1963
McLean Hosp., Belmont
Dresel, R. L., *Or.* 1921
37 Calhoun Ter., San Francisco, Calif.

Drewry, G. R., *M.* 1953
1 Davis Blvd., Tampa, Fla.
DREYFUS, P. M., assoc. n.; a.n. (*McL.*); r.p. *N.* 1955 M. G. H.
DREYFUSS, J. R., assoc. r. M. G. H.
DROOKER, J. C., s. *Otolar.*
285 Commonwealth Ave.
DRORBAUGH, J. E., a. pediat.
454 Brookline Ave.
Duda, G. A, r.p. *Psychiat.* (*McL.*) 1961 McLean Hosp., Belmont
Duffy, R. J., r.p. *Psychiat.* (*McL.*) 1935 Methodist Bldg., Wheeling, W. Va.
DUGGAN, J. A., clin. assoc. *C.*
713 Pleasant, Worcester
DUHL, F. J., a. *Psychiat.* M. G. H.
Dulin, J. W., *Path.* 1933
Dey Bldg., Iowa City, Iowa
DUMONT, M. P., r.p. *Psychiat. (McL.)*
McLean Hosp., Belmont
DUNBAR, R. W., a.r.p. *An.* M. G. H.
Duncombe, A. L., *E.M.* 1934
336 Pleasant, Brockton
Dunn, E., a.r.s. 1956
1200 E. Genesee, Syracuse, N. Y.
Dunn, Fa-Chi, a.r.p. *D.* 1954
Kaiser Foundation Hosp., Oakland, Calif.
Dunn, W. L., a.r.p. *Path.* 1960
University College Hosp. Med. Sch., Gower, London N.W. 1, England
Durno, E. R., *E.S.* 1929
House of Representatives Office Bldg., Washington, D. C.
D'Urso, J. J., r.p. *D.* 1944
301 Essex, Lawrence
Duxbury, J. H., r.s. *U.* 1960
625 Fort, Victoria, British Columbia, Canada
Dwight, R. W., *W.S.* 1931
Vet. Adm. Hosp.,
150 S. Huntington Ave., Jamaica Plain
Dwyer, J. H., a.r.p. *C.M.* 1956; r.p. *Psychiat.* (*McL.*) 1958
Western Psychiatric Inst. and Clinic, Pittsburgh, Pa.
DYER, E. C., clin. assoc. *C.*
1180 Beacon, Brookline
DYKES, M. H. M., a. *An.* M. G. H.
EASTON, M. T., s. *Oph.*
70 Carlton, Brookline
Eaton, R. G., a.r.s. *Or.* 1961
Children's Med. Center
EBISUZAKI, K., a. biochem. *Biochem. Res.* M. G. H.
Edelman, G. M., *M.* 1955
Rockefeller Inst. Med. Res., 66th and York Ave., New York, N. Y.
Edelstein, L. M., a.r.p. *D.* 1962
Dept. of Biochem., Brandeis Univ., Waltham
Edgelow, A. F. G., *W.S.* 1921
130 Maple, Springfield
Edmonds, H. W., r.p. *Path.* 1942
110 Irving, N.W., Washington, D.C.
EDMUNDS, L. H., Jr., r.s. (*S.* 1957) M. G. H.
Edsall, G., *E.M.* 1936
Inst. of Labs., Mass. Dept. of Public Health,
375 South, Jamaica Plain
Edwards, W. S., *W.S.* 1946; a.r.s. 1952 Med. Coll. of Alabama, Birmingham, Ala.
EGBERT, L. D., a. an. M. G. H.
Egel, N., r.s. *Or.* 1938
797 Elmwood Ave., Rochester, N. Y.
EGER, W. H., a. psychiat.
80 E. Concord
Egloff, F. R. L., r.p. *Psychiat.* 1951
31 Main, Farmington, Conn.
Ehrenkranz, N. J., *M.* 1950; r.p. 1954
Univ. of Miami Sch. of Med., Miami, Fla.
Eiseman, B., *E.S.* 1943
Univ. of Kentucky Med. Sch., Lexington, Ky.
ELDRED, S. H., assoc. psychiat. (*McL.*) McLean Hosp., Belmont
Eldredge, J. H., a.r.s. *Or.* 1960
Children's Med. Center
ELDREDGE, L. L., Jr., assoc. pediat.; a.r.p. *C.M.* 1951 215 Main, Hingham
Eliel, L. P., *E.M.* 1942
Oklahoma Med. Res. Inst., Oklahoma City, Okla.
ELIOT, C. R., a.r.p. *C.* M. G. H.
Ellenberg, J., r.p. *Psychiat.* (*McL.*) 1962
Albert Einstein Coll. of Med., Bronx, N. Y.
Ellery, S. W., *E.S.* 1943
1090 Atlantic Ave., Long Beach, Calif.
ELLETT, W. H., a. physicist *M.* M. G. H.
Elliot, H. L., r.p. *An.* 1942
Chestnut Hill, Harlan, Ky.
Elliott, J. A., Jr., *M.* 1945
1012 Kings Dr., Charlotte, N. C.

ELLIS, D. S., p. (*E.M.* 1941)
M. G. H.

Ellis, Effie O., *C.M.* 1951; a.r.p. *C.M.* 1952
Provident Hosp. and Free Dispensary, Baltimore, Md.

Ellis, L. B., *E.M.* 1928
319 Longwood Ave.

Elrick, H. E., *M.* 1944; a.r.p. 1947
Vet. Adm. Hosp., Denver, Colo.

Embree, L. J., a.r.p. *N.* 1962; a.r.p. *Path.* 1963 M. G. H.

EMERSON, G. F., clin. assoc. *S.* (*E.S.* 1939); r.s. 1942
764 Main, Hingham

Emmons, A. B., II, *W.S.* 1905
Bay View Estates, Brewster Dr., Largo, Fla.

EMPSON, DORA R., j.a.r.p. *C.*
M. G. H.

ENDEE, C. H., dn.s. 6 Marlborough

ENGEL, L. L., biochem. *M.* M. G. H.

Engelman, K., *M.* 1960; a.r.p. 1961
National Inst. of Health, Bethesda, Md.

ENGLAND, A. C., Jr., a. *N.*
M. G. H.

Enterline, J. D., *E.S.* 1943; j.r.s. 1944
Kings View Hosp., Reedley, Calif.

Eppright, R. H., a.r.s. *Or.* 1955
1803 Calumet, Houston, Tex.

ERLE, R. A., a. psychol. (*McL.*)
McLean Hosp., Belmont

ERVIN, F. R., assoc. psychiat.
M. G. H.

ESSEMBER, L. J., assoc. pediat.; a.r.p. *C.M.* 1953 25 Conant, Danvers

ESSIG, A., a. *M.* M. G. H.

Esslinger, J. O., a.r.s. *Or.* 1952
622 N. Woodward Ave., Birmingham, Mich.

EUSTIS, R. S., *Bd. of Cons.* (*W.M.* 1912 and *C.M.* 1913)
Hancock, N. H.

Evans, Richard R., *Path.* 1944
Cleveland Clinic, 2020 E. 93rd, Cleveland, Ohio

EVANS, ROBLEY D., cons. *Physics*
M. I. T., Cambridge

Evans, S. S., *E.S.* 1945; a.r.s. 1950
619 S. Broadway, McAllen, Tex.

Everett, H. C., III, a.r.p. *Psychiat.* 1958
Johns Hopkins Hosp., Baltimore, Md.

Ewell, J. W., *W.M.* 1937
Dept. of Hygiene and Health, Yale Univ., New Haven, Conn.

Ewer, E. G., *Or.* 1936
419 30th, Oakland, Calif.

Exley, M. M., r.s. *U.* 1938
Wainwright Bldg., Norfolk, Va.

Eyler, W. R., *C.M.* 1943; r.p. *R.* 1949
Henry Ford Hosp., Detroit, Mich.

Fairlie, C. W., Jr., *W.M.* 1942; r.p. 1947
85 Jefferson, Hartford, Conn.

Fallon, J. T., *C.M.* 1925
86 Whitmarsh, Providence, R. I.

Fang, H. C.-H., a.r.p. *Psychiat.* 1952
Univ. of Alabama Med. Center, Birmingham, Ala.

FARKAS, R. W., r.p. *Psychiat.* (*McL.*)
McLean Hosp., Belmont

Farmer, D. A., *W.S.* 1943
203 Commonwealth Ave.

FARNSWORTH, D. L., p. (*W.M.* 1935) 75 Mount Auburn, Cambridge

Farrell, M. E., *C.M.* 1934
318 Spring Ave., Clarksburg, W. Va.

FARRISEY, RUTH M., exec. o. *M. G. H. Clin.* (*S.N.* 1938)
M. G. H.

Faulkner, J. M., *E.M.* 1925
Fleming Law Bldg., Boulder, Colo.

Faust, L. W., r.s. *U.* 1924
Med. Arts Bldg., Grand Rapids, Mich.

Fawcett, D. W., *W.S.* 1943
H. M. S.

FAXON, H. H., *Bd. of Cons.* (*E.S.* 1927); r.s. *E.S.* 1928
Vet. Adm. Hosp., 150 S. Huntington Ave., Jamaica Plain

FAXON, N. W., dir. emeritus (*S.S.* 1906) W. Falmouth

Fay, G. F., a.r.s. *Or.* 1957
1180 Beacon, Brookline; Concord Med. Center, Concord

Fay, J. H., *E.M.* 1929 226 Marlborough

FEARER, N. H., a. pediat. (*C.M.* 1957); a.r.p. *C.M.* 1958
25 Conant, Danvers

FEDERMAN, D. D., a. *M.* (*M.* 1954); a.r.p. 1955 M. G. H.

FEINGOLD, M., a.r.p. *C.* M. G. H.

Fennell, R. H., Jr., sr.r.p. *Path.* 1949
Presbyterian Hosp., Pittsburgh, Pa.

Ferguson, A. B., Jr., a.r.s. *Or.* 1950
Children's Hosp., Pittsburgh, Pa.

FERGUSON, E. L., clin. assoc. *S.* (*S.* 1954); a.r.s. 1959 159 Essex, Holyoke

Ferguson, I. A., Jr., *S.* 1953; a.r.s. 1959
Emory Univ. Clinic, Atlanta, Ga.

Ferguson, J. J., Jr., *M.* 1951; r.p. 1955
516 Westminster Ave.,
Swarthmore, Pa.

Ferguson, L. A., *M.* 1961
Univ. of Chicago Sch. of Med.,
Chicago, Ill.

Fern, D. J., a.r.p. *Psychiat.* 1961; r.p. *Psychiat.* (*McL.*) 1962 M. G. H.

FERRIS, B. G., cons. *M.*
Harvard Sch. of Public Health

FIASCONE, A. D., a. *Pediat.*
1 Salem, Wakefield

Field, J. B., *M.* 1952; r.p. 1954
Univ. of Pittsburgh Sch. of Med.,
Pittsburgh, Pa.

Field, P., a.r.s. 1962
28 Young, N. Sudbury,
Ontario, Canada

FIELD, R. A., a.p. (*M.* 1950); c.r.p. 1955 M. G. H.

FIENBERG, R., clin. assoc. *Path.*
Beverly Hosp., Beverly

Finck, A. J., a.r.p. *An.* 1949
Beth Israel Hosp.

Findlay, F. M., *E.S.* 1924
San Manuel Copper Corp. Hosp.,
San Manuel, Ariz.

Fine, J., a.r.s. 1927
330 Brookline Ave.

FINESINGER, A. L., a. *Psychiat.*
14 Parkman, Brookline

Finkenstaedt, J. T., *M.* 1947; r.p. 1949
Cornell Univ. Med. Coll.,
New York, N. Y.

Finlayson, N. B., a.r.p. *Path.* 1960
San Francisco Gen. Hosp.,
San Francisco, Calif.

Finley, K. H., *W.M.* 1934; r.p. *N.* 1936 450 Sutter,
San Francisco, Calif.

Firminger, H. I., sr.r.p. *Path.* 1947
Univ. of Maryland Sch. of Med. and
Coll. of Physicians and Surgeons,
Baltimore, Md.

Fischberg, B. W., r.p. *Psychiat.* (*McL.*) 1961 McLean Hosp., Belmont

FISCHER, J. E., a.r.s. (*S.* 1962)
M. G. H.

Fish, J. E., *E.S.* 1930; r.s. *E.S.* 1932
Lahey Clinic

FISHER, C. M., n. and assoc. n.p.
M. G. H.

Fisher, Mary S., *M.* 1949
Philadelphia Gen. Hosp.,
Philadelphia, Pa.

FISHMAN, N., clin. assoc. *Dn. M.*
361 Nichols, Norwood

Fishman, R. A., r.p. *N.* 1950
Neurological Inst., 710 W. 168th,
New York, N. Y.

Fitch, R. R., *W.M.* 1904
Northeast Harbor, Maine

Fite, E. H., *E.S.* 1926
443 N. 16th, Muskogee, Okla.

FITZHUGH, G., p. 330 Dartmouth

FITZPATRICK, T. B., c. *D.* M. G. H.

Flacke, Joan W., a.r.p. *An.* 1963
1 Emerson Pl.

Flagg, J. A., a.r.p. *An.* 1955
Bridgeport Hosp.,
Bridgeport, Conn.

Flanagan, N. B., a.r.p. *Psychiat.* 1940
203 Grove, Wellesley

FLAX, M. H., a. path. M. G. H.

Fleming, T. C., a.r.p. *N.* 1961
M. G. H.

Flood, W. E., a.r.p. *D.* 1942
Med. Arts Bldg.,
Fort Worth, Tex.

Flook, S. E., *Or.* 1940
137 N. Main, Dayton, Ohio

Florence, D. W., r.s. *Or.* 1960
4959 Excelsior Blvd.,
Minneapolis, Minn.

Floyd, C., *W.M.* 1904
55 Appleton, Cambridge

FLYNN, J. G., clin. assoc. *C.* (*C.M.* 1943); a.r.p. *C.M.* 1947
377 Essex, Salem

FLYNN, R. E., a. *N.*
736 Cambridge, Brighton

FOLCH-PI, J., dir. *Sc. Res.* (*McL.*)
McLean Hosp., Belmont

Foldes, F. F., r.p. *An.* 1943
Montefiore Hosp., New York, N. Y.

FOLEY, F. D., a.r.p. *Path.* M. G. H.

Foley, T. M., *Or.* 1915
140 Quince, San Diego, Calif.

FOLKMAN, M. J., a.r.s. (*S.* 1958)
M. G. H.

FOLLENSBY, EDNA M., cons. a. immunol. *M.* M. G. H.

Folsom, H. F., *W.M.* 1931
Townshend, Vt.

FORBES, A., cons. *Neurophysiol.*
Biological Lab.,
Harvard Univ., Cambridge

FORBES, ANNE P., a.p. M. G. H.

Forbes, Vassilike A.-C., *C.M.* 1956
21 Argyle Pk.,
Buffalo, N. Y.

Ford, A. B., *M.* 1950; a.r.p. 1952
Benjamin Rose Hosp., Cleveland, Ohio
FORD, DOROTHY E., a. *Phys. M.* M. G. H.
FORD, R., cons. *Forensic Path.*
784 Massachusetts Ave.
Fornshell, R. P., sr.r.s. *Or.* 1958
85 Osborne, Danbury, Conn.
FORRANT, HELEN, exec. a. (*S.N.* 1930) M. G. H.
Fort, F. L., *Or.* 1922
1022 Park, Jacksonville, Fla.
Foster, F. D., past a. dir.
Maricopa County Gen. Hosp., Phoenix, Ariz.
FOSTER, G. S., a.p. (*M.* 1952); a.r.p. 1953 M. G. H.
Fowler, C. B., *Or.* 1929
526 Soquel Ave., Santa Cruz, Calif.
Fowler, D. M., *E.S.* 1946
Cove, Duxbury
FOX, B. M., a.r.s. *U.* M. G. H.
FRALEY, E. E., a.r.s. (*S.* 1962) M. G. H.
Frame, B., *M.* 1949; r.p. 1955
Henry Ford Hosp., Detroit, Mich.
Francis, L., a.r.p. *An.* 1950
3022 Breckenwood Dr., Lexington, Ky
FRANK, T., a. *Pediat.;* a.r.p. *C.M.* 1953 134A Brattle, Cambridge
FRANKLIN, W., a.p.
100 Country Club Rd., Newton Centre; Zero Emerson Pl.
Franseen, C. C., *W.S.* 1932
1180 Beacon, Brookline
Franseen, E. F., j.r.s. *Or.* 1947
146 Chestnut, Springfield
FRANTZ, A. G., a. *M.* M. G. H
Franz, E. M., a.r.s. *Or.* 1948
1750 Race, Denver, Colo
FRAZEE, J. R., s. *Otolar.*
1180 Beacon, Brookline
FRAZIER, H. S., a. *M.* (*M.* 1954); a.r.p. 1955 M. G. H.
FREEDBERG, I. M., clin. assoc. *D.*; a.r.p. *D.* 1960 Beth Israel Hosp.
Freedman, H. J., *C.M.* 1928
454 Brookline Ave.
Freeman, D. W., *C.M.* 1935
112 N. Burnett Ave., Denison, Tex.
Freeman, N. E., r.s. *W.S.* 1935
490 Post, San Francisco, Calif.
Freeman, W. T., *C.M.* 1922
Biltmore, N. C.
FREESE, C. G., Jr., a. *Oph.*
328 Washington, Wellesley Hills
Freiberg, J. A., *Or.* 1926
2939 Vernon Pl., Cincinnati, Ohio
FREINKEL, RUTH K., a. d.; r.p. *D.* 1957 M. G. H.
FREMONT-SMITH, M., hon. p.
12 Hereford
FREYMANN, J. G., clin. assoc. *M.* (*M.* 1947); a.r.p. 1951
Memorial Hosp., 119 Belmont, Worcester
FRIED, M. A., psychol. 50 Beacon
FRIEDLICH, A. L., assoc.p. (*M.* 1943); r.p. 1948 Zero Emerson Pl.
Friedman, C. F., *C.M.* 1923
770 Ocean Ave., Brooklyn, N. Y.
FRIEDMAN, E., a. *Oph.*
Mass. E. & E. Inf.
Friedman, L. J., *M.* 1956
Beth Israel Hosp.
Friedman, S. B., *C.M.* 1958; c.r.p. *C.M.* 1960
Univ. of Rochester Sch. of Med. and Dn., Rochester, N. Y.
Fritz, W. F., *M.* 1950; a.r.p. 1951
2 W. University Parkway, Baltimore, Md.
FROMER, J. L., clin. assoc. *D.*
605 Commonwealth Ave.
Frost, H. M., *W.S.* 1915
Friendship, Maine
Frost, R. G., a.r.p. *An.* 1961
1065 Cass, Monterey, Calif.
Fu, Wen Shou, *C.M.* 1926
address unknown
Fuchs, P., *W.S.* 1942
3a Ave. 7-34, Guatemala City, Guatemala
Fuldner, R. V., *Or.* 1939
178 Sherman Ave., New Haven, Conn.
Fuller, Henry, *W.M.* 1929
210 Hibriten Way, Lakeland, Fla.
Fuller, Henry S., *W.M.* 1943
Walter Reed Army Inst. of Research, Washington, D. C.
Funsch, R. E., a.r.s. *Or.* 1951
950 Francis Pl., Clayton, Mo.; 508 N. Grand Ave., St. Louis, Mo.
Fuson, W. A., r.p. *R.* 1927
905½ Main, Trenton, Mo.
Gabuzda, T. G., *M.* 1956; a.r.p. 1957
Peter Bent Brigham Hosp.
Gaffney, T. E., a.r.p. 1959
Univ. of Cincinnati Coll. of Med., Cincinnati, Ohio
GALBRAITH, N. F., Jr., a.r.s. M. G. H.

Gall, E. A., r.p. *Path.* 1937
Cincinnati Gen. Hosp., Cincinnati, Ohio

Gamble, C. J., *W.M.* 1922
73 Adams, Milton

Gammon, W. M., *C.M.* 1932
Central Bldg., Bristol, Va.-Tenn.

Gamsu, D., r.s. *N.S.* 1948
Florence Nightingale Private Hosp., Johannesburg, South Africa

GANEM, E. J., clin. assoc. *U.*
301 Essex, Lawrence

GANZ, R. N., pediat. (*C.M.* 1925)
M. G. H.

GARCELON, G. G., clin. assoc. *S.*
701 Washington, Newtonville

GARCIA, C.-R., a.s. 266-A Beacon

GARDELLA, J. W., a.p. (*M.* 1945); a.r.p. 1946 M. G. H.

Gardiner, W. J., r.p. *E.M.* 1929
Toronto Gen. Hosp., Toronto, Canada

Gardner, G. E., *C.M.* 1938; r.p. *C.M.* 1939
Judge Baker Guidance Center, 295 Longwood Ave.

Gardner, L. I., *C.M.* 1944; a.r.p. *C.M.* 1947 Upstate Med. Center Hosp., Syracuse, N. Y.

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8 The Fenway

GARRAN, F. W., Jr., clin. assoc. *S.* (*S.* 1951); a.r.s. 1955
40 Lewis Bay Rd., Hyannis

Garren, L., a.r.p. 1962
National Inst. of Health, Bethesda, Md.

GARRETT, J. W. D., assoc. an. (*An.* 1940); r.p. *An.* 1941 M. G. H.

GARREY, W. E., clin. assoc. *S.* (*E.S.* 1933); r.s. 1936
585 Main, Malden

Garrigues, H. B., *W.S.* 1939; a.r.s. *W.S.* 1940 1301 Columbia, Seattle, Wash.

Garrity, R. W., sr.r.s. *N.S.* 1950
3300 6th Ave., San Diego, Calif.

GASHGAI, A., a.r.s. (*S.* 1958)
M. G. H.

Gaston, L. W., *M.* 1954; r.p. 1956
University Hosp., Seattle, Wash.

GATES, P. H., a. psychiat.; r.p. *Psychiat.* (*McL.*) 1942
51 Brattle, Cambridge

GAULD, A. G., clin. assoc. *Obst.* (*E.S.* 1934) 1180 Beacon, Brookline

Gaunt, F. P., *W.S.* 1913
13-A N. Gore Ave., Webster Groves, Mo.

Gauthier, Jacqueline, a.r.p. *Psychiat.* 1957; r.p. *Psychiat.* (*McL.*) 1959
M. G. H.

Gay, L. N., *E.M.* 1918
1114 St. Paul, Baltimore, Md.

GEHRING, J. R., a. *Oph.*
9 Central, Lowell

Gens, J. P., r.s. *U.* 1943
71 East Ave., Norwalk, Conn.

Gentry, R. W., *E.S.* 1943
65 N. Madison Ave., Pasadena, Calif.

George, H. L., Jr., *C.M.* 1929; r.p. *C.M.* 1930 104 Paddock, Watertown, N. Y.

GEPHART, F. T., assoc. v.s. (*W.S.* 1942); r.s. 1948 M. G. H.

GERGELY, J., assoc. biochem. *M.*
M. G. H.

GERMANOS, K., a.r.s. *Or.* M. G. H.

Gevalt, F. C., Jr., a.r.p. 1943
Sharon Clinic, Sharon, Conn.

Gibbs, R. F., a.r.p. *An.* 1962
Union Hosp., Lynn

Gibson, G. C., *W.S.* 1944
Wesson Maternity Hosp., Springfield

GIBSON, JAMES M., a.r.p. *Path.* (*Path.* 1962) M. G. H.

Gibson, John G., a.r.p. *Psychiat.* 1951
Dept. of Mental Health, Queen's Univ. of Belfast, Belfast, Northern Ireland

Gibson, L. E., r.s. *U.* 1926
831 James, Syracuse, N. Y.

Giddings, W. P., *W.S.* 1939; r.s. 1946
528 Main, Bennington, Vt.

Gilbert, A. C., h.s. *U.* 1923
Vet. Adm. Hosp., Walla Walla, Wash.

Giles, R. B., Jr., a.r.p. 1956
1719 Pacific Ave., Dallas, Tex.

GILL, B. F., a. psychiat.
168 Homer, Newton Centre

Gillies, A. J., a.r.p. *An.* 1952
Strong Memorial Hosp., Rochester, N. Y.

Ginandes, S. C., *C.M.* 1952
134 Mount Auburn, Cambridge

GITTES, R. F., a.r.s. *U.* (*S.* 1961); a.r.s. 1962 M. G. H.

Glendy, Margaret Moriarty, *C.M.* 1932; r.p. *C.M.* 1934
116 Mountain Ave., S.E., Roanoke, Va.

Glendy, R. E., a.r.p. 1934
2037 Crystal Spring Ave., S.W., Roanoke, Va.

Glenn, W. W. L., a.r.s. 1946
Yale Univ. Sch. of Med., New Haven, Conn.

GLICKLICH, E. A., a.d.
403 Commonwealth Ave.

GLIMCHER, M. J., a. *Or.*; a.r.s. 1953; sr.r.s. *Or.* 1956 M. G. H.

GLINES, G. A., a. pediat.
8 Porter, Melrose

Globus, G. G., r.p. *Psychiat.* (*McL.*) 1961 Boston Univ.-Mass. Memorial Hosp. Med. Center

Glotzer, D. J., *S.* 1953; acting a.r.p. *Path.* 1959; a.r.s. 1960
New Eng. Med. Center

Glover, D. M., *W.S.* 1922
10525 Carnegie Ave., Cleveland, Ohio

Godley, Anne F., *M.* 1949; a.r.p. 1950
43 Hedge Rd., Brookline

Goeringer, C. F., *Or.* 1940
209 S. 63rd, Philadelphia, Pa.

Goettsch, Elvira, *C.M.* 1931
Univ. of Hawaii, Honolulu, Hawaii

Goetz, F. C., *M.* 1947; c.r.p. 1954
Univ. of Minnesota Hosp., Minneapolis, Minn.

GOHD, R. S., virol. (*E.* & *E.*)
Mass. E. & E. Inf.

Goldberg, A. H., a.r.p. *An.* 1960
National Inst. of Health, Bethesda, Md.

Goldberg, L. I., *M.* 1957; a.r.p. 1958
Emory Univ., Emory University, Ga.

Goldblatt, M. E., *E.M.* 1926
975 Park Ave., New York, N. Y.

Golden, R., h.p. *R.* 1921
Univ. of California at Los Angeles Med. Center, Los Angeles, Calif.

GOLDEN, T. S., clin. assoc. *C.*
250 Franklin, Framingham

Goldfinger, S. E., *M.* 1961; a.r.p. 1962
National Inst. of Health, Bethesda, Md.

Goldsmith, L. H., *C.M.* 1923
220 College Ave., Athens, Ga.

Goldthwait, J. C., a.r.p. *Path.* 1948
1180 Beacon, Brookline

Gomatos, P. J., r.p. 1959
Rockefeller Inst. Med. Res., 66th and York Ave., New York, N. Y.

Goodale, F., Jr., a.r.p. *Path.* 1954
Dartmouth Med. Sch., Hanover, N. H.

Goodson, W. H., Jr., r.p. *Psychiat.* (*McL.*) 1963 M. G. H.

Gordon, A. M., *C.M.* 1929
4406 Greenwood Dr., Des Moines, Iowa

Gordon, E. S., *Path.* 1935
University Hosp., Madison, Wis.

GORDON, J. E., cons. *Prev. M.*
Harvard Sch. of Public Health

Gordon, P. S., *Dn.* 1955
341 Main, W. Haven, Conn.

Gore, C. P., a.r.p. *Psychiat.* 1952
Dunollie, Station Rd., Menston, England

Gorman, Mary L. Gannon, r.p. *N.P.* 1947 159 Main, Kingston, N. Y.

Gorman, Rosemary V., a.r.p. 1945
626 Westminster Ave., Elizabeth, N. J.

Gorrell, J. E., past a. dir.
Electronic Associates, Inc., N. Long Branch, N. J.

Gottschalk, C. W., *M.* 1946; r.p. 1952
Univ. of North Carolina Sch. of Med., Chapel Hill, N. C.

GOULIAN, M., a. *M.*; r.p. 1961 M. G. H.

Graeser, J. B., *W.M.* 1929
298 Grand Ave., Oakland, Calif.

Graham, C. P., *E.S.* 1935 and *N.S.* 1936
304 N. 11th, Wilmington, N. C.

GRAHAM, J. R., clin. assoc. *M.* (*W.M.* 1936) Faulkner Hosp., Jamaica Plain

Grant, G. J. M., r.p. *D.* 1932
9 Central, Lowell

Grant, L. H., a.r.p. 1957
Johns Hopkins Univ. Sch. of Med., Baltimore, Md.

GRANT, W. M., assoc. s. *Oph.*
Mass. E. & E. Inf.

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GRAY, F. C., *Chairman of Trustees* and *Vice President of the Corporation* 10 P. O. Sq.

Graybiel, A., *E.M.* 1932
U.S. Naval Aviation Med. Center, Pensacola, Fla.

Greeley, H. P., *W.M.* 1910
1901 Monroe, Madison, Wis.

GREEN, S., r.p. *Psychiat.* (*McL.*) McLean Hosp., Belmont
GREEN, T. H., Jr., assoc. v.s. (*W.S.* 1947); r.s. 1953 226 Marlborough
GREENBERG, J. J., a.r.s. (*S.* 1957) M. G. H.
Greene, D. C., *C.M.* 1940 1302 Pennsylvania Ave., Hagerstown, Md.
Greene, G. S., a.r.s. *Or.* 1948 85 Jefferson, Hartford, Conn.
Greene, N. M., a.r.p. *An.* 1951 Grace-New Haven Community Hosp., New Haven, Conn.
Greene, Richard W., *M.* 1945 32 Johnson Ave., Newark, N. J.
Greene, Robert G., a.r.s. *Or.* 1953 63 S. Fullerton Ave., Montclair, N. J.
Greenhill, M. H., r.p. *Psychiat.* 1939 233 E. 69th, New York, N. Y.
Greenough, J., *W.S.* 1920 Box 22, Cooperstown, N. Y.
Greenwood, F. A. H., a.r.s. *Or.* 1959 Montreal Gen. Hosp., Montreal, Canada
GREGG, W. I., clin. assoc. *S.* (*W.S.* 1935) 1269 Beacon, Brookline
Gregory, H. E., *C.M.* 1942 N. Main, Wolfeboro, N. H.
Gregory, R. A., r.p. *N.* 1933 Provincial Hosp., Lancaster, New Brunswick, Canada
Grier, R. S., *E.M.* 1942; a.r.p. 1943 4925 Trinity Dr., Los Alamos, N. M.
GRIESEMER, R. D., a.d.; sr.r.p. *D.* 1949 Peter Bent Brigham Hosp.; M. G. H.
GRIFFEY, L. E., a.s. *Otolar.* Mass. E. & E. Inf.
Griggs, J. B., *C.M.* 1929 Breezy Hill Rd., Canton, Conn.
GRILLO, H. C., assoc. v.s. (*S.* 1948); r.s. 1955 M. G. H.
GRINER, P. F., r.p. (*M.* 1960) M. G. H.
GRISCOM, N. T., r.p. *R.* (*C.M.* 1957); a.r.p. *C.M.* 1958 M. G. H.
GROSS, J., assoc. biol. *M.* M. G. H.
Grossman, M. S., *C.M.* 1958; a.r.p. *C.M.* 1959 Children's Med. Center
GROVE-RASMUSSEN, M., dir. of *Blood Bank and Transfusion Service* M. G. H.
Grover, J. W., *S.* 1957; a.r.s. 1959 Free Hosp. for Women, Brookline
Groves, L. K., *W.S.* 1947 Cleveland Clinic Foundation, 2020 E. 93rd, Cleveland, Ohio
Grunebaum, H. U., r.p. *Psychiat.* (*McL.*) 1960 McLean Hosp., Belmont
Guardo, J. L., *N.S.* 1930; a.r.s. *N.S.* 1931 5 Aldwin Rd., Jamaica Plain
GUILD, H. R., *Trustee* and *Treasurer of the Corporation* 294 Washington
Guller, E. I., *C.M.* 1924 277 Alexander, Rochester, N. Y.
Gundersen, A. Erik, *S.* 1956; a.r.s. 1962 Ulleval Hosp., Oslo, Norway
Gundersen, Adolf L., *S.* 1950; a.r.s. 1955 Gundersen Clinic, La Crosse, Wis.
Gundersen, Sigurd B., Jr., *S.* 1949; a.r.s. 1954 Gundersen Clinic, La Crosse, Wis.
Gundersen, Sven M., *E.M.* 1931 Hitchcock Clinic, Hanover, N. H.
Gundersen, T. E., r.p. *N.* 1941 Gundersen Clinic, La Crosse, Wis.
GURALNICK, W. C., a. oral s. 328 Washington, Wellesley Hills; 29 Commonwealth Ave.
GUTHRIE, A. D., Jr., a. *Pediat.* 2 Water, Medford
Guyton, A. C., *W.S.* 1943; a.r.s. 1946 University Med. Center, Jackson, Miss.
Haase, F., Jr., past a. dir. Albany Med. Center Hosp., Albany, N. Y.
Haber, E., *M.* 1957; r.p. 1962 35 Wimpole, London, England
HACKETT, T. P., a. psychiat. M. G. H.
HAESSLER, H. A., a. *Pediat.*; a.r.p. *C.M.* 1960 M. G. H.
Hafter, S. Sheila, r.p. *Psychiat.* (*McL.*) 1961 M. G. H.
Haggart, G. E., *W.M.* 1920 Jordan Hosp., Plymouth
HAGGERTY, R. J., a. pediat. 300 Longwood Ave.
Haines, S. F., *W.M.* 1921 Mayo Clinic, Rochester, Minn.
HAKALA, T. R., a.r.s. (*S.* 1962) M. G. H.
HAKOMORI, S., a. biochem. *M.* M. G. H.
Hale, C. H., sr. r.p. *R.* 1943 1200 E. Genesee, Syracuse, N. Y.
HALEY, W. D., a.s. *Oph.* 78 Church, Winchester

Hall, B., *M.* 1946
40 S. Clay, Hinsdale, Ill.

Hall, F. C., *E.M.* 1918
1180 Beacon, Brookline

Hall, H. D., *Dn.* 1958; a.r.s. *Dn.* 1959
Univ. of Alabama Med. Center, Birmingham, Ala.

Hall, M. G., *Path.* 1934 Orford, N. H.

Hall, R. G., *W.M.* 1910
731 S.E. 41st, Portland, Oreg.

HALL, T. C., a. *M.*; a. *M.* (*McL.*); a.r.p. 1954 M. G. H.

HALLENBECK, D. F., Jr., a. psychiat. (*McL.*); r.p. *Psychiat.* 1949; sr. r.p. *Psychiat.* (*McL.*) 1951
McLean Hosp., Belmont

HALLOWELL, P., assoc. an.; a.r.p. *An.* 1955 M. G. H.

Halsted, J. A., *W.M.* 1932
Metropolitan Hosp., Detroit, Mich.

HALVERSTADT, D. B., a.r.s. (*S.* 1961) M. G. H.

Hamilton, Harold H., r.s. *P.H.* 1933
70 Court, Plymouth

Hamilton, Howard B., *C.M.* 1945
764 S. Emerson Ave., Indianapolis, Ind.

Hamilton, R. DeL., *E.M.* 1904
223 High, Newburyport

Hamilton, T. S., past a. dir.
Hartford Hosp., Hartford, Conn.

HAMLIN, E., Jr., v.s. (*W.S.* 1936); r.s. *W.S.* 1939 M. G. H.

HAMLIN, H., a. *N.S.*; r.s. *N.S.* 1942
270 Benefit, Providence, R. I.; M. G. H.

Hammond, W., *Path.* 1929
36 Crane Rd., Scarsdale, N. Y.

Hand, D. W., *Or.* 1934
450 Sutter, San Francisco, Calif.

HANELIN, J., clin. assoc. *R.*
27 W. Central, Natick

Hanflig, S. S., *Or.* 1931
45 Pinehurst Rd., Belmont

Hansen, Robert H., a.r.p. *An.* 1957
286 Marion Dr., Baton Rouge, La.

HANSEN, ROBERT J., cons. *Or.*
M.I.T., Cambridge

Hanser, T. H., *E.M.* 1924
3701 Grandel Sq., St. Louis, Mo.

Haralambie, J. Q., *C.M.* 1936
17 N. Chatsworth Ave., Larchmont, N. Y.

Harder, H. J., a.r.p. *An.* 1952
Schwabinger Krankenhaus, München, Germany

HARDY, HARRIET L., assoc. p.
Med. Dept., M.I.T., Cambridge

HARDY, I. B., clin. assoc. *S.* (*E.S.* 1939); a.r.s. 1942
94 Russell, Waltham

HARGRAVES, ELEANOR R., exec. a. (*R.N.*) M. G. H.

Harper, D. T., Jr., *M.* M. G. H.

Harper, R. S., a.r.p. *Path.* 1958
Memorial Hosp., 199 Belmont, Worcester

HARRIS, E. D., Jr., a.r.p. (*M.* 1963) M. G. H.

Harris, H. P., Jr., *N.S.* 1936
1432 Post Rd., Fairfield, Conn.

Harris, W. Robert, a.r.s. *Or.* 1952
170 St. George, Toronto, Canada

HARRIS, WILLIAM H., a. *Or.*; sr. r.s. *Or.* 1959 M. G. H.

Harrison, Elizabeth R., *C.M.* 1928; r.p. *C.M.* 1929
255 Bradley, New Haven, Conn.

Harrison, M. B., *E.M.* 1938
2000 Van Ness Ave., San Francisco, Calif.

Harrison, P. W., *E.S.* 1909; h.s. *U.* 1915 Penney Farms, Fla.

Harrison, T. S., a.r.s. 1959
Grace-New Haven Community Hosp., New Haven, Conn.

Harter, J. S., *W.S.* 1935
Med. Arts Bldg., Louisville, Ky.

Harting, D., *C.M.* 1947 USPHS, Beaumont, Tex.

Hartwig, A. R., a.r.s. *Or.* 1948
490 Post, San Francisco, Calif.

Harty, J. E., r.p. *Psychiat.* (*McL.*) 1939
101 N. Main, Waterbury, Conn.

HARVEY, a. admin. (*McL.*)
McLean Hosp., Belmont

Harvey, R. B., *M.* 1946
251 Edwards, New Haven, Conn.

HARWOOD, R., assoc. p. (*W.M.* 1936) M. G. H.

Hashimoto, K., a.r.p. *D.* 1959
Boston Dispensary, 25 Bennet

Haswell, H. P., a.r.p. *An.* 1949
2217 Webster, San Francisco, Calif.

Hatch, Floyd F., *E.S.* 1916; h.s. *E.S.* 1917 699 E. South Temple, Salt Lake City, Utah

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HATCH, FREDERICK T., a.p. M. G. H.

Hathaway, J. S., r.p. *E.M.* 1932
109 College, New Haven, Conn.

HAUSER, G., assoc. biochem. (*McL.*)
McLean Hosp., Belmont
Haut, A., *M.* 1950; r.p. 1953
Univ. of Utah Coll. of Med.,
Salt Lake City, Utah
Havemeyer, W. F., a.r.s. 1948
2509 E. Elm, Tucson, Ariz.
Hawes, C. H., *W.S.* 1931
151 Rock, Fall River
Hawes, L. E., *E.M.* 1939 and *C.M.*
1940; a.r.p. *R.* 1942
Faulkner Hosp., Jamaica Plain
Hawkes, R. S., *W.M.* 1933
47 Deering, Portland, Maine
Hawkins, R., r.s. *N.S.* 1948
571 Hamilton Ave.,
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HAYCOX, J. A., a. psychiat. (*McL.*)
McLean Hosp., Belmont
HAYDEN, E. P., *Bd. of Cons.;* h.s.
E.S. 1923 249 Commonwealth Ave.
Hayden, J. W., a.r.s. *Or.* 1955
Gundersen Clinic, La Crosse, Wis.
HAYDEN, W. L., a. *Otolar.*
Mass. E. & E. Inf.
Hayes, D. R., *E.S.* 1939
281 State, Springfield
Haynes, Ruth C., a.r.p. *An.* 1955
131 S. Grant Ave., Columbus, Ohio
Haynes, W. M., *S.* 1952; a.r.s. 1956
131 S. Grant Ave., Columbus, Ohio
HAZARD, G. W., a.r.p. *C.* M. G. H.
HAZARD, S. W., assoc. pediat.
1233 Highland Ave., Needham
HEAD, J. M., a.s. (*S.* 1951); a.r.s.
1957 Zero Emerson Pl.
Healey, J. C., r.p. *Psychiat.* (*McL.*)
1961 Mental Health Dept.,
State Capitol Bldg., Hartford, Conn.
Heath, C. W., *W.M.* 1928
Health Service, Tufts Univ.,
Medford
Heath, P., Jr., a.r.p. 1954
22 White, Rockland, Maine
Heath, R. D., a.r.s. *Or.* 1950
Lankenau Med. Bldg.,
Philadelphia, Pa.
Hebertson, W. M., r.p. *N.* 1957
975 E. 1st, South,
Salt Lake City, Utah
HEDBERG, S. E., a. *S.* (*S.* 1956); a.r.s.
1962 M. G. H.
HEDLEY-WHYTE, J., a. *An.*
M. G. H.
Heffron, R., *E.M.* 1931
The Commonwealth Fund,
1 E. 75th, New York, N. Y.
Heggie, J. F., *M.* 1956
20 Cleveland Ave.,
Glen Head, Long Island, N. Y.
HELFANT, M. H., a.r.s. *N.S.*
M. G. H.
HELGESON, N. G. P., a.r.p. *Path.*
M. G. H.
HELMAN, M. E., a.d.
1874 Beacon, Brookline
Helmholz, H. F., Jr., *W.M.* 1939
Mayo Clinic, Rochester, Minn.
HENDERSON, B. E., a.r.p. (*M.* 1963)
M. G. H.
HENDREN, W. H., a.s. (*S.* 1953);
r.s. 1958 M. G. H.
Hendrick, I., r.p. *Psychiat.* (*McL.*)
1932 84 Mount Vernon
Henley, T. F., *C.M.* 1939
7 E. 78th, New York, N. Y.
Hepburn, J. P., a.r.p. *An.* 1953
Milton Hosp., Milton
Hepburn, R. H., r.s. *U.* 1943
85 Jefferson, Hartford, Conn.
Herbst, A. L., *S.* 1960; a.r.s. 1962
Boston Lying-in Hosp.
HERM, R. J., a. *Oph.*
42 Weston, Waltham
HERMAN, A. E., r.p. *Psychiat.* (*McL.*)
McLean Hosp., Belmont
Hermann, G., *S.* 1955; a.r.s. 1961
1245 E. Colfax Ave., Denver, Colo.
HERMANN, H. T., a. psychiat. (*McL.*)
McLean Hosp., Belmont
Herrmann, J. B., *S.* 1958; a.r.s. 1962
Walter Reed Army Inst. of Research,
Washington, D. C.
Herrera, R. E., *E.S.* 1943; a.r.s. 1946
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Hershey, F. B., *E.S.* 1947; r.s. 1952
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Heusner, A. P., *E.S.* 1939; a.r.s. 1942
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Univ. of North Carolina Sch. of Med.,
Chapel Hill, N. C.
Heyl, H. L., r.s. *N.S.* 1940
Dartmouth Med. Sch.,
Hanover, N. H.
Heyl, J. T., *W.M.* 1939
Phillips Exeter Acad., Exeter, N. H.
HIAM, E. W., *Associate Trustee*
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Hiden, R. B., *W.M.* 1925
Silver Hill Foundation, New Canaan, Conn.

HIEBERT, C. A., clin. assoc. *S.* (*S.* 1952); r.s. 1958 18 Bramhall, Portland, Maine

Hiebert, J. M., *C.M.* 1933
1450 Broadway, New York, N. Y.

Hiett, Joan Kazanjian, r.p. *C.M.* 1959
1101 E. Pecan, Altus, Okla.

Higbee, D. R., *W.M.* 1925
1612 Tremont Pl., Denver, Colo.

Higgins, R. B., a.r.s. *U.* 1951
Univ. of Oregon Med. Sch.; Vet. Adm. Hosp., Portland, Oreg.

HILL, John M., a.s. *Oph.*
108 Bay State Rd.

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9 Bow, Cambridge

Hill, Leonard W., *C.M.* 1935
76 Bank, Attleboro

Hill, Lewis W., *W.M.* 1915
319 Longwood Ave.

Hill, N. P., *M.* 1946; a.r.p. 1946
Truesdale Hosp., Fall River

HILL, W. R., clin. assoc. *D.* M. G. H.

Hills, H. M., Jr., *Or.* 1942
1208 Kanawha Blvd., East, Charleston, W. Va.

Hills, O. W., *M.* 1943
111 St. Matthews Ave., San Mateo, Calif.

HINCKLEY, R. H., a. *Oph.*
520 Commonwealth Ave.

Hinshaw, A. J., *E.S.* 1947
3155 Stagg Dr., Beaumont, Tex.

HIRSCH, L. S., a. *Otolar.*
42 Lincoln, Framingham

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Hitchcock, J., *W.M.* 1921
39 Main, Concord

Hobson, L. B., *M.* 1944
Squibb Inst. Med. Res., 745 5th Ave., New York, N. Y.

Hochwalt, W. R., *Or.* 1931; r.s. *Or.* 1931 2300 Far Hills Ave., Dayton, Ohio

Hodges, T. W., *Or.* 1941
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HODGSON, J. S., hon. s. (*W.S.* 1916); h.s. *W.S.* 1916 and *E.S.* 1920 1180 Beacon, Brookline

Hoeffel, G. N., *C.M.* 1922; h.p. *C.M.* 1923 Truro

Hofer, M. A., *M.* 1959; a.r.p. 1960
National Inst. of Health, Bethesda, Md.

Hoffer, A., *M.* 1962
Mass. Mental Health Center, 74 Fenwood Rd.

Hoffman, H. A., r.s. *U.* 1946
60 8th, New Bedford

Hoffman, Nancy Davis, a.r.p. *An.* 1960 Base Hosp., Fort Carlson, Colorado Springs, Colo.

Hogan, J. F., *M.* 1949 and *C.M.* 1950; a.r.p. *C.M.* 1951
156 Broadway, Pawtucket, R. I.

Holbrook, A. A., *C.M.* 1933 and *E.M.* 1934 425 E. Wisconsin Ave., Milwaukee, Wis.

HOLDER, R., assoc. psychiat. (*M.* 1945); r.p. *Psychiat.* 1946
274 Commonwealth Ave.

Holihan, J. P., *E.S.* 1943; a.r.p. *An.* 1949 Andover

HOLLAND, D. J., Jr., clin. assoc. *Dn. M.* (*Dn.* 1938); a.r.s. *Dn.* 1947
1146 Beacon, Brookline

HOLLAND, JAMES G., assoc. psychol. *N.* M. G. H.

Holland, Jimmie Brockman, r.p. *Psychiat.* 1955
Edward J. Meyer Memorial Hosp., Buffalo, N. Y.

HOLLANDER, J., a.r.p. *N.* M. G. H.

HOLMES, E. M., s. *Otolar.*
330 Dartmouth

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HOLMES, J. A., clin. assoc. *S.* (*Path.* 1936 and *E.S.* 1938)
94 Russell, Waltham

Holmes, R. B., r.p. *R.* 1950
Toronto Gen. Hosp., Toronto, Canada

Holmes, S. G., *C.M.* 1943
1606 E. La Rua, Pensacola, Fla.

Holt, C. L., *N.S.* 1938
29 Deering, Portland, Maine

Holt, W. L., Jr., r.p. *N.* 1937
Albany Med. Center Hosp., Albany, N. Y.

Holtz, A. I., *C.M.* 1958
National Inst. of Health, Bethesda, Md.

HOMANS, J., Jr., a. *M.* (*W.M.* 1942); a.r.p. 1946 1776 Beacon, Brookline

HOOPER, D. F., a. psychol. M. G. H.

Hopkins, C. E., a.r.p. *C.M.* 1948
113 N. Carroll, Madison, Wis.
Hopkins, F. S., *E.S.* 1919
146 Chestnut, Springfield
Hopkins, R. W., *S.* 1948; a.r.s. 1954
3395 Scranton Rd., Cleveland, Ohio
Hopkins, S. W., *E.S.* 1936
28 Orne, Marblehead
Hormell, R. S., *Or.* 1942
1152 Beacon, Brookline; 8 Porter, Melrose
Horn, C. E., *Or.* 1940; r.s. *Or.* 1942
2901 Capitol Ave., Sacramento, Calif.
Horwitz, W. H., r.p. *Psychiat.* (*McL.*) 1951 220 Bushkill, Easton, Pa.
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Hovsepian, Jeannette A., a.r.p. *R.* 1958
Johns Hopkins Hosp., Baltimore, Md.
Howard, F. H., *C.M.* 1949; a.r.p. *C.M.* 1950
Dhahran Health Center, Dhahran, Saudi Arabia
Howard, H. H., *W.S.* 1914
Fishers Lane, Delray Beach, Fla.
Howard, J. E., *W.M.* 1930
Johns Hopkins Hosp., Baltimore, Md.; Union Memorial Hosp., Baltimore, Md.
HOWARD, P. M., assoc. c. psychiat. (*McL.*); psychiat.; r.p. *Psychiat.* 1937; r.p. *Psychiat.* (*McL.*) 1939
McLean Hosp., Belmont
HOWE, HENRY D., dn.s. (*Dn.* 1945) 196 Marlborough
Howe, Henry F., r.s. *P.H.* 1934
Director, Dept. of Occupational Health, Amer. Med. Assoc., 535 Dearborn, Chicago, Ill.
HOWE, LOUISA P., a. sociol. *Psychiat.* 20 Whittier
HOWRY, D. H., a.r. M. G. H.
Hoyt, W. F., *W.S.* 1932; r.s. *W.S.* 1934 130 Maple, Springfield
Hubbard, E., Jr., *W.M.* 1921
29 Highland, Cambridge
Huber, W. M., r.p. *D.* 1937
512 Beacon
Huckell, J. R., a.r.s. *Or.* 1958
McLeod Bldg., Edmonton, Alberta, Canada
Hugenberger, P. W., *Path.* 1931 and *Or.* 1935; r.p. *Path.* 1932
234 Marlborough
HUGGARD, MIRIAM, exec. a. *P.H.* (*S.N.* 1931) M. G. H.
HUGGINS, C. E., a. *S.* (*S.* 1953); r.s. 1960 M. G. H.
Hughes, H. C., *Or.* 1937
1750 Race, Denver, Colo.
Hughes, J. R., *M.* 1961
Children's Med. Center
Hügin, W., a.r.p. *An.* 1948
Chir Klink im Burgerspital, Basel, Switzerland
Hummel, L. E., *Path.* 1932
Edward J. Meyer Memorial Hosp., Buffalo, N. Y.
Humphreys, S. P., *Or.* 1936; a.r.s. *N.S.* 1937 266 Beacon
Hunt, R. T. N., *Path.* 1957; a.r.p. *Path.* 1958 555-B Forney Loop, Fort Belvoir, Va.
Hunt, S. P., a.r.p. *Psychiat.* 1940
158 Whitney Ave., New Haven, Conn.
Hunter, R. W., a.r.p. *N.* 1939
Hitchcock Clinic, Hanover, N. H.
HUNTINGTON, B. L., a.p. (*W.M.* 1940)
John Hancock Mut. Life Ins. Co.
Huntington, J. L., *S.S.* 1908
River Dr., Hadley
Hüppe, J. R., r.p. *R.* 1957
Goethe Str. 45, München 15, Germany
HURLEY, P. D., a. *Oph.*
270 Commonwealth Ave.
HURST, A. L., a. *Otolar.*
98 Adams, Milton
HURWITZ, J. J., a. *U.*
1152 Beacon, Brookline
Hurxthal, L. M., *W.M.* 1925; r.p. *E.M.* 1927 Lahey Clinic
Huston, L. L., *Or.* 1937
67 Converse, Longmeadow
Hyatt, G. T., *W.S.* 1931 and *Or.* 1934 1106 W. Franklin, Evansville, Ind.
HYSLOP, N. E., Jr., a.r.p. (*M.* 1962) M. G. H.
Ibsen, B., a.r.p. *An.* 1950
Solotorvet 84, Copenhagen K, Denmark
Ilfeld, F. W., *Or.* 1937; r.s. *Or.* 1937
436 N. Roxbury Dr., Beverly Hills, Calif.
Ingalls, T. H., r.p. *C.M.* 1938
Univ. of Pennsylvania Sch. of Med., Philadelphia, Pa.
INGERSOLL, F. M., assoc. v.s. (*W.S.* 1939); a.r.s. 1942 226 Marlborough

IRWIN, J. W., a. *M.* M. G. H.

Isaacs, J. P., a.r.p. *An.* 1952
Johns Hopkins Hosp.,
Baltimore, Md.

ISSELBACHER, K. J., assoc. p. (*M.* 1950); r.p. 1953 M. G. H.

JABALEY, M. E., a.r.s. M. G. H.

Jackanich, R. F., a.r.p. *An.* 1959
USPHS Hosp., San Francisco, Calif.

Jackson, B. B., *S.* 1953; a.r.s. 1957
Heyburn Bldg., Louisville, Ky.

Jackson, H., Jr., *E.M.* 1919
Tryon, N. C.

Jackson, Lee, r.p. *Psychiat.* (*McL.*) 1959 Children's Med. Center

JACOBSON, B. M., p. M. G. H.

JACOBY, G. A., Jr., a.r.p. (*M.* 1959) M. G. H.

JAKO, G., a. *Otolar.* 8 Porter, Melrose

James, G. W., III, *M.* 1944
Med. Coll. of Virginia,
Richmond, Va.

JAMES, L. P., Jr., r.p. *Path.* (*S.* 1959) M. G. H.

James, W. J., r.s. *N. S.* 1949
2929 Loma Vista Rd.,
Ventura, Calif.

Jamison, R. L., *M.* 1961; a.r.p. 1962
Presbyterian Hosp.,
New York, N. Y.

JANOWER, M. L., a.r.p. *R.* M. G. H.

JARDETZKY, O., cons. *Pharm.* H. M. S.

Javid, M., r.s. *N.S.* 1952
University Hosp., Madison, Wis.

JEANLOZ, R. W., biochem. *M.* M. G. H.

Jefferies, W. McK., *E.M.* 1942
University Hosp., Cleveland, Ohio

Jenkins, M. T., a.r.p. *An.* 1948
Univ. of Texas Southwestern
Med. Sch., Dallas. Tex.

JENNEY, P. B., a. psychiat. (*McL.*)
McLean Hosp., Belmont

Jergesen, F. H., *Or.* 1942
384 Post, San Francisco, Calif.

Jessner, Lucie, r.p. *Psychiat.* (*McL.*) 1939 Univ. of North Carolina,
Chapel Hill, N. C.

Jobe, M. C., *C.M.* 1924
227 16th, Denver, Colo.

JOHANNET, P., a. psychiat.
262 Beacon

JOHNSON, C. C., assoc. c. *Oph. Clin. Serv.* Mass. E. & E. Inf.

Johnson, Dale G., *S.* 1957; a.r.s. 1961
Walter Reed Army Inst. of Res.,
Washington, D. C.

JOHNSON, DAVID S., a. *Oph.*
203 Commonwealth Ave.

Johnson, F. G., *Dn.* 1943
Litchfield Turnpike, Bethany,
New Haven, Conn.

Johnson, Louis F., a.r.p. *An.* 1954
military service

Johnson, Louis G., *Path.* 1940 and *E.M.* 1942; a.r.p. 1942
Royal Victoria Hosp.,
Montreal, Canada

Johnson, N. P., *E.M.* 1925
1409 Willow, Minneapolis, Minn.

Johnson, O. R., r.p. *D.* 1931
18 Deering, Portland, Maine

Johnson, P. R., *Path.* 1936
85 Jefferson, Hartford, Conn.

Johnson, R. T., a.r.p. *N.* 1960
M. G. H.

Johnson, V. S., sr. r.s. *Or.* 1955
27 Elm, Worcester

Johnston, E. V., *W.S.* 1947
312 W. 8th Ave., Spokane, Wash.

Jones, B. B., *E.M.* 1918 and *C.M.* 1919
526 North Blvd.,
Richmond, Va.

JONES, C. M., *Bd. of Cons.* (*E.M.* 1919); h.p. *E.M.* 1921 M. G. H.

Jones, F. S., *Or.* 1932
85 Jefferson, Hartford, Conn.

Jones, G. E., *E.S.* 1939; a.r.s. 1942
108 W. 22nd, Olympia, Wash.

JONES, H. W., Jr., a. *M.*
330 Dartmouth

JONES, K. E., a. *M.* 135 Clarendon

JONES, R. H., a. *M.*; r.p. 1959 M. G. H.

Jones, T. B., *Thd. S.* 1924
1351 Mount Hope Ave.,
Rochester, N. Y.

Jones, Wallace A., a.r.p. *Path.* 1959
military service

Jones, William Nicholas, a.r.s. *Or.* 1954 35 Huntington,
New London, Conn.

JONES, WILLIAM NORMAN, a.s. *Or.* (*Or.* 1947) M. G. H.

JOPLIN, R. J., *Bd. of Cons.* (*Path.* 1929 and *Or.* 1933)
1180 Beacon, Brookline

JORDAN, E. F., a.r.s. *N.S.* M. G. H.

Jordan, W. R., *W.M.* 1930
1631 Monument Ave., Richmond, Va.

Joseph, A. T., *Dn.* 1941
475 Commonwealth Ave.

JOSEPH, J. B., a. *Pediat.;* a.r.p. *C.* 1963 M. G. H.

Josse, J. W., *M.* 1957; a.r.p. 1958 Washington Univ. Sch. of Med., St. Louis, Mo.

JOYCE, JOSEPHINE, exec. a. (*R.N.*) M. G. H.

Judd, A. B., *S.* 1955 59 Broad, Eatontown, N. J.

Judd, J. M., *E.S.* 1944; j.r.s. *E.S.* 1945; r.s. *N.S.* 1946 Murray Hill, Mount Morris, N. Y.

Justi, R. A., r.p. *Path.* 1956 Jackson Memorial Hosp., Miami, Fla.

Kahn, D. S., r.p. *Path.* 1950 St. Mary's Hosp., Montreal, Canada

KAHNE, M. J., assoc. psychiat. (*McL.*) McLean Hosp., Belmont

KAIL, ALEXANDRA M., r.p. *Psychiat.* (*McL.*); a.r.p. *Psychiat.* 1963 McLean Hosp., Belmont

KALCKAR, BARBARA W., assoc. biochem. *M.* M. G. H.

KALCKAR, H. M., res. biochem. *Biochem. Res.* M. G. H.

Kalil, T. H., a.r.p. *R.* 1946 795 Elm, Manchester, N. H.

KALIN, T. A., cons. *Biomath. Psychiat.* M. G. H.

KANE, L. W., a. *M.* (*W.M.* 1941) M. G. H.

Kantor, M., a.r.p. *Psychiat.* 1960 M. G. H.

KANTROWITZ, P. A., a.r.p. M. G. H.

KAPLAN, S., a. psychiat. 38 Hyde, Newton Highlands

Karian, E., a.r.p. *D.* 1955 358 Commonwealth Ave.

*Karnes, W. E., r.p. *N.* 1958 Box 25, U.S. Air Force Hosp., Travis Air Force Base, Calif.

KARTCHNER, M. M. a.r.s. (*S.* 1958) M. G. H.

KASHKET, S., a. biochem. *M.* M. G. H.

Katz, A. M., *M.* 1957; a.r.p. 1960 5210 Greenwood, Chicago, Ill.

Katz, S. L., a.r.p. *C.M* 1955 Children's Med. Center

Kaufman, H. E., *M.* 1957 J. Hillis Miller Health Center, Univ. of Florida, Gainesville, Fla.

Kaufman, M. R., r.p. *Psychiat.* (*McL.*) 1933 Mount Sinai Hosp., New York, N. Y.

Kaufmann, G. G., a.r.p. 1941 15 Dix, Winchester

KAZANJIAN, K. A., a.s. *Otolar.;* r.p. *D.* 1933 475 Commonwealth Ave.

KAZANJIAN, V. H., hon. s. 475 Commonwealth Ave.

KAZEMI, H., r.p. M. G. H.

KEARSLEY, R. B., assoc. pediat. (*C.M.* 1954); c.r.p. *C.M.* 1956 M. G. H.

Keats, A. S., a.r.p. *An.* 1951 Baylor Univ. Coll. of Med., Houston, Tex.

Keeley, J. K., *N.S.* 1937; r.s. *P.H.* 1938 103 S. Hamilton, Poughkeepsie, N. Y.

KEENAN, M. E., a.r.p. *C.* M. G. H.

KEENAN, T. J., a. *An.;* a.r.p. *An.* 1959 M. G. H.

Keevil, C. S., Jr., *M.* 1956; r.p. 1958 Concord Med. Center, Concord

Keiser, R. P., *Or.* 1942 Coral Gables Clinic, Coral Gables, Fla.

KEITT, A. S., a.r.p. (*M.* 1962) M. G. H.

KELEMEN, G., res. cons. *Otolar.* Mass. E. & E. Inf.

KELLER, J. W., a. *M.* 266 Beacon

KELLEY, RITA M., assoc.p. (*M.* 1947); r.p. 1949 M. G. H.

KELLEY, S. B., cons. v.u. (*E.S.* 1931); r.s. *U.* 1933 412 Beacon

KELLY, J. F., podiatrist *Or.* 924 Statler Office Bldg.

KELLY, L. T., a. *An.;* a.r.p. *An.* 1961 M. G. H.

Kendrick, J. I., *Or.* 1933 2020 E. 93rd, Cleveland, Ohio

Kennard, H. E., *W.S.* 1934 246 Dudley Rd., Newton Centre

Kennedy, B. Hughes, *C.M.* 1921 2940 Clairmont Ave., Birmingham, Ala.

Kennedy, Byrl J., *M.* 1946; r.p. 1952 Univ. of Minnesota Med. Center, Minneapolis, Minn.

KENNEDY, D. A., a. soc. anthropol. (*McL.*) 3 Felton, Cambridge

Kennedy, J. H., *S.* 1950; a.r.s. 1955 Cleveland Metropolitan Gen. Hosp., Cleveland, Ohio

Kennedy, R. P., *Thd. S.* 1924 Box 262, Richmond, Ind.

*Not in States and Cities section of this Directory

Kenner, G., a.r.s. *Or.* 1961
540 Parker, Newton

KENT, C., assoc. s. *Otolar.*
483 Beacon

KERMOND, W. L., a. *Or.*
175 Washington, Winchester

Kernan, R. D., *Path.* 1945
3 rue Edouard Nortier,
Neuilly-sur-Seine, France

KERR, WALTER S., Jr., assoc. v.u. (*W.S.* 1943); a.r.s. 1947; r.s. *U.* 1949 M. G. H.

Kerr, William J., *W.M.* 1916
Box 338, Blue Lake,
Humboldt County, Calif.

Kerrigan, G. A., *C.M.* 1950; c.r.p. *C.M.* 1952
Milwaukee Children's Hosp.,
Milwaukee, Wis.

Kershaw, Beatrice R., r.p. *Psychiat.* (*McL.*) 1939
29 Louise Rd., Belmont

KETCHUM, P., *Trustee* and *President of the Corporation* 294 Washington

Ketchum, W. F., *C.M.* 1948
Children's Cancer Research
Foundation, 35 Binney

Kettle, R. H., r.p. *Psychiat.* (*McL.*) 1931 Norwich State Hosp.,
Norwich, Conn.

KEUPER, C. S., a. *D.;* r.p. *D.* 1951
Concord Med. Center, Concord

Key, R. E., sr.r.s. *Or.* 1958
800 5th Ave., Fort Worth, Tex.

Key, W. A., *Or.* 1927
23 Baldwin Ave., San Mateo, Calif.

Keyes, G. H., *M.* 1947
Ogden Clinic, Ogden, Utah

Kiely, B., *M.* 1952
University Hosp., Madison, Wis.

Kilfoyle, R. M., a.r.s. *Or.* 1951
457 Main, S. Weymouth

KIMBALL, P. G., r.s. *Dn. M.* (*Dn. M.* 1961) M. G. H.

Kimberly, C. H., r.p. *N.* 1929
Stockbridge

Kimura, K. K., *C.M.* 1955; a.r.p. *C.M.* 1956
Atlas Chemical Industries, Inc.,
Wilmington, Del.

*Kind, H. A., *C.M.* 1935
U.S. Army Dispensary,
Fort Hamilton, Brooklyn, N. Y.

KING, D. S., hon. p. (*E.M.* 1920)
4 Downing Rd., Hanover, N. H.

King, H. S., a.r.p. *C.M.* 1959
20 Egmont, Brookline

King, W. B., Jr., a.r.p. *Path.* 1956
700 Fleet, Baltimore, Md.

Kinney, R. J., a.r.p. 1943
Box 669, Fort Bayard, N. M.

KINOSHITA, J. H., biochem. *Oph.*
Mass. E. & E. Inf.

Kinsey, Dera, a.r.p. 1939
203 Commonwealth Ave.

KIRKWOOD, S. B., *Bd. of Cons.* (*W.S.* 1934) 1180 Beacon,
Brookline

KITE, O. W., dn.s. (*Dn.* 1951)
29 Bay State Rd.

Kitts, A. W., r.p. *C.M.* 1941
346 W. Baltimore Ave., Media, Pa.

KJELLBERG, R. N., a. *N.S.;* r.s. *N.S.* 1959 M. G. H.

Klaus, Hanna, a.r.p. *Path.* 1953
8400 Pine Rd., Philadelphia, Pa.

Kleaveland, R.N., *S.* 1952; a.r.s. 1956
Medical Center, Spokane, Wash.

Klein, David M., r.s. *N.S.* 1961
Edward J. Meyer Memorial Hosp.,
Buffalo, N. Y.

KLEIN, DONALD C., assoc. psychol.
11 Abbott Rd., Wellesley

Klein E., a.r.p. *D.* 1959
Roswell Park Memorial Hosp.,
Buffalo, N. Y.

Kleinman, L. I., *C.* 1961; a.r.p. *C.* 1962
Harvard Univ. Sch. of Public
Health, 715 Huntington Ave.

Klenk, E. L., *C.* M. G. H.

KLIMAN, B., a. *M.* M. G. H.

KLINE, R. M., a.r.p. *C.* (*C.* 1962) M. G. H.

Klingensmith, W. E., *S.* 1955; a.r.s. 1961 Beckley Memorial Hosp.,
Beckley, W. Va.

KLOTZ, R. E., assoc. s. *Otolar.*
Mass. E. & E. Inf.

Knapp, M. R., a.r.p. *An.* 1955
4601 E. Douglas, Wichita, Kan.

Knapp, P. H., a.r.p. *Psychiat.* 1947
Boston Univ.-Mass. Memorial
Hosp. Med. Center

Knapp, R. G., Jr., *Dn.* 1950
258 Genesee, Utica, N. Y.

Kneisel, J. J., *E.M.* 1940
Hosp. of St. Raphael,
New Haven, Conn.

KNOWLES, J. H., gen. dir.; assoc. p. (*M.* 1952); c.r.p. 1958 M. G. H.

Koch-Weser, J., *M.* 1955; r.p. 1959
H. M. S.

*Not in States and Cities section of this Directory

KOLODNY, G. M., a.r.p. *R.* M. G. H.

Koppel, Elizabeth A., a.r.p. *An.* 1954 437 Cedar, N.W., Washington, D. C.

Korn, D., *Path.* 1960 National Inst. of Health, Bethesda, Md.

KORNFELD, W., a. attend. psychiat. (*McL.*) 1419 Beacon, Brookline

KORNFIELD, M. A., j.a.r.p. *C.* M. G. H.

Kosek, Margaret Single, a.r.p. *C.M.* 1958 Palo Alto Med. Clinic, Palo Alto, Calif.

KOVACEVICH, M. M., r.p. *Psychiat.* (*McL.*) McLean Hosp., Belmont

Kozol, H. L., *E.M.* 1936 115 Bay State Rd.

Kramer, J. G., *C.M.* 1917 159 S. Main, Akron, Ohio

KRANE, S. M., a.p. (*M.* 1952); c.r.p. 1957 M. G. H.

KRANES, A., p. (*W.M.* 1932); c.r.p. 1935 M. G. H.

KRAUS, P. S., assoc. attend. psychiat. (*McL.*) 12 Longfellow Rd., Wellesley

Kraut, H. L., a.r.p. *D.* 1957 1742 Summer, Stamford, Conn.

Kravitz, A. R., *M.* 1955 Beth Israel Hosp.

KRAYER, O., cons. *Pharm.* H. M. S.

Kreisle, J. E., *W.M.* 1943; r.p. 1947 2317 Longview Ave., Austin, Tex.

KRICKSTEIN, H. I., r.p. *Path.* M. G. H.

Kristjansson, H., a.r.s. *Or.* 1946 City Hosp., Reykjavik, Iceland

KUBIK, C. S., hon. p. M. G. H.

KUBZANSKY, P. E., a. psychol. Boston Univ., 308 Bay State Rd.

Kuhlmann, R. F., sr. r.s. *Or.* 1948 80 Colchester Ave., Burlington, Vt.

Kuhn, W. G., Jr., a.r.s. *Or.* 1949 251 Powers, New Brunswick, N. J.

Kuhns, J. G., *Or.* 1926 416 Marlborough

Kuldau, J. M., r.p. *Psychiat.* (*McL.*) 1961 McLean Hosp., Belmont

Kulka, J. P., a.r.p. *Path.* 1947 Robert Breck Brigham Hosp.

KUNZ, L. J., b. M. G. H.

KUPFER, C., a. *Oph.* Mass. E. & E. Inf.

KUWABARA, T., a. *Oph. Path.* Mass. E. & E. Inf.

KVARACEUS, W. C., res. assoc. *Ed. Psychol.* (*McL.*) Sch. of Education, Boston Univ., 332 Bay State Rd.

KWASS, G. F., a. *Path.* M. G. H.

Lacey, W. H., *W.S.* 1917 W. Hill Rd., Keene, N. H.

Lake, M., *W.M.* 1924 11 E. 68th, New York, N. Y.

Lambert, E. C., *E.M.* 1943 Children's Hosp., Buffalo, N. Y.

Lambert, J. T., *W.M.* 1942 768 Park Ave., New York, N. Y.

LAMBORG, M. R., a. biochem. *M.* M. G. H.

LAMDIN, SUSANNE J., a. *An.* (*C.M.* 1953); a.r.p. *An.* 1959 M. G. H.

LAMKINS, B. E., clin. assoc. *D.;* r.p. *D.* 1963 M. G. H.

LAMONT, J. H., assoc. psychiat.; sr.r.p. *Psychiat.* (*McL.*) 1951 M. G. H.

LAMPERT, N. R., a.r.s. (*S.* 1960) M. G. H.

Lang, D. J., a.r.p. *C.* 1961 National Inst. of Health, Bethesda, Md.

Langer, G. A., *M.* 1955; r.p. 1960 Dept. of Cardiovascular Research, Univ. of California at Los Angeles Med. Center, Los Angeles, Calif.

LANGEVIN, H. J., admin. (*McL.*) McLean Hosp., Belmont

Lansing, C., *C.M.* 1948; a.r.p. *C.M.* 1950 North Carolina Memorial Hosp., Chapel Hill, N. C.

Larkey, J., *W.S.* 1928 431 30th, Oakland, Calif.

Laron, Z., r.p. *C.M.* 1955 Beilinson Hosp., Petah Tiqva, Israel

LARSON, C. B., *Bd. of Cons.* (*Or.* 1938) State Univ. of Iowa; Children's Hosp., Iowa City, Iowa

Lassiter, W. E., *M.* 1955; a.r.p. 1956 59 Hamilton Rd., Chapel Hill, N. C.

Laster, L., *M.* 1950; r.p. 1953 National Inst. of Health, Bethesda, Md.

LAVER, M. B., a. an. M. G. H.

LAWLOR, R. C., a. *Oph.* 9 Central, Lowell

Lawrence, G. Hugh, *W.S.* 1947; a.r.s. 1952 1118 9th Ave., Seattle, Wash.

LAWRENCE, GLENN W., dn.s. 25 Bay State Rd.

LAWRENCE, JOHN E., *Vice Chairman of Trustees* 177 Milk

Lawrence, John S., *W.M.* 1925
Med. Sch. of Univ. of California
South, Los Angeles, Calif.

Lawson, D. W., *S.* M. G. H.

Layzer, R. B., *M.* 1958; a.r.p. 1959
Columbia-Presbyterian Med. Center,
New York, N. Y.

Lazarus, H. R., r.p. *Psychiat.* (*McL.*)
1959 2400 N. 111th,
Wauwotosa, Milwaukee, Wis.

Leach, C. A., Jr., a.r.p. *C.M.* 1951
525 Southfield Rd.,
Birmingham, Mich.

LEADBETTER, G. W., Jr., a. u.;
sr.r.s. *U.* 1959 M. G. H.

LEADBETTER, W. F., c. *U.* M. G. H.

LEAF, A., p. (*M.* 1944) M. G. H.

LEAHEY, B. D., s. *Oph.*
9 Central, Lowell

Leake, D. L., *Dn.M.* M. G. H.

LEAPE, L. L., Jr., a.r.s. (*S.* 1960)
M. G. H.

LEAVITT, S. S., r.p. *Psychiat.* (*McLean*) McLean Hosp., Belmont

LeBARON, F. N., assoc. biochem.
(*McL.*) McLean Hosp., Belmont

Ledbetter, Betsy A., a.r.p. *An.* 1955
1513 Line Ave., Shreveport, La.

LeDonne, J. E., r.p. *D.* 1952
357 Essex, Salem

Lee, J. M., *C.M.* 1916
706 Church, Nashville, Tenn.

LEE, R. I., hon. p. (*E.M.* 1907)
446 Walnut, Brookline

Leeman, C. P., *M.* 1960
Mass. Mental Health Center

Leeper, R. W., r.p. *D.* 1950
Kaiser Foundation Hosp.,
Oakland, Calif.

Lees, R. S., *S.* 1960; a.r.p. 1962
National Inst. of Health,
Bethesda, Md.

Legge, R. F., *Or.* 1935
7255 Girard Ave., La Jolla, Calif.;
3737 Moraga Ave., San Diego, Calif.

Lehman, R. A. W., *S.* M. G. H.

LEHRICH, J. R., a.r.p. (*M.* 1963)
M. G. H.

Leiderman, P. H., r.p. *Psychiat.* 1957
Mass. Mental Health Center

Leidholt, J. D., a.r.s. *Or.* 1952
1855 Gaylord, Denver, Colo.

Leigh, A. D., r.p. *Psychiat.* 1948
150 Harley, London W. 1,
England

Leighton, J., r.p. *Path.* 1949
Univ. of Pittsburgh Sch. of Med.,
Pittsburgh, Pa.

Leinbach, T. C., a.r.s. *Or.* 1956
330 N. 5th, Reading, Pa.

Leister, C. M., *C.M.* 1934
1731 W. Broad, Bethlehem, Pa.

LEITNER, A., a.r.p. M. G. H.

LELE, P. P., a. neurophysiol. *N.S.*
M. G. H.

LENTINE, J., s. *Otolar.*
15 Bay State Rd.

Leonard, L. M., sr.r.s. *Or.* 1961
military service

LEPPER, EDNA S., assoc. dir. *Nurs. Serv.* (*S.N.* 1926) M. G. H.

LERMAN, J., p.
370 Commonwealth Ave.

LESKOWITZ, S., assoc. immunol. *M.*
M. G. H.

Letsou, V. G., a.r.p. *D.* 1956
170 Merrimack, Lowell

Levene, M. B., r.p. *R.* 1954
636 Beacon

Leventhal, Brigid G., *C.* 1961; a.r.p.
C. 1962 Boston City Hosp.

LEVENTHAL, C. M., r.p. *N.*
M. G. H.

LEVER, W. F., *Bd. of Cons.*; a.r.p. *D.*
1938 Boston Dispensary,
25 Bennet

LEVEY, B., r.p. *Psychiat.* (*McL.*)
McLean Hosp., Belmont

LEVEY, R. H., a.r.s. (*S.* 1960)
M. G. H.

Levine, Herbert J., a.r.p. 1958
New Eng. Center Hosp.

LeVINE, HERBERT O., a. *Psychiat.*
379 Central, Auburndale

LEVITAN, J. J., a.dn.s. 80 Boylston

Levy, S. W., a.r.p. *D.* 1951
450 Sutter,
San Francisco, Calif.

LEWIS, D. K., assoc. s. *Otolar.*
5 Emerson Pl., Mass. E. & E. Inf.

Lewis, E. O., sr.r.p. *R.* 1945
St. Luke's Hosp., New Bedford

Lewis, James, *W.M.* 1935 and *C.M.*
1936 281 State, Springfield

Lewis, John L., Jr., *S.* 1958; a.r.s. 1962
Boston Lying-in Hosp.

LEWIS, JOSEPH L., clin. assoc. *C.*
(*C.M.* 1936); r.p. *C.M.* 1937
25 Grant, Waltham

Lezer, L. R., past a. dir.
Boston City Hosp.

Licciardello, A. T., *M.* 1948; a.r.p.
1949 2875 Main, Stratford, Conn.

Lichtenwalner, C. S., *M.* 1950; a.r.p. 1951 Sch. of Med., American Univ. of Beirut, Beirut, Lebanon

Lichty, J. S., past a. dir. Akron Gen. Hosp., Akron, Ohio

LIEBMAN, S. D., assoc.s. *Oph.* 115 Bay State Rd.

Liffmann, K. E., *Dn.* 1956 Rhode Island Hosp., Providence, R. I.

LIFVERGREN, SARAH M., exec. a. *Gen. Hosp.* and *B.M.* (*S.N.* 1930) M. G. H.

Lilly, T. E., Jr., *E.S.* 1943 Argyle Bldg., Kansas City, Mo.

Lincoln, J. R., *Or.* 1918 709 Main, Wareham

LINCOLN, R. C., dn.s. (*Dn.* 1953) M. G. H.

LINDEMANN, E., c. *Psychiat.;* psychiat. (*McL.*) M. G. H.

LINDSAY, D. R., deputy to gen. dir. for res. admin. M. G. H.

Linenthal, A. J., a.r.p. 1944 1265 Beacon, Brookline

LINGEMAN, B. S., a. *Oph.* 328 Washington, Wellesley Hills

Lingenfelter, G. P., *D.* 1910 1612 Tremont Pl., Denver, Colo.

Lingley, J. R., a.r.p. *R.* 1931 27 Elm, Worcester

LINTON, R. R., *Bd. of Cons.* (*W.S.* 1928); r.s. *W.S.* 1930 1180 Beacon, Brookline

Lipman, M. M., r.p. 1959 Scarsdale Med. Center, Scarsdale, N. Y.

Lipowski, Z. J., a.r.p. *Psychiat.* 1959 Royal Victoria Hosp., Montreal, Canada

Little, J. B., r.p. *R.* 1961 M. G. H.

LITTLEFIELD, J. W., a. *M.* (*M.* 1948); r.p. 1950 M. G. H.

LITTMANN, D., clin. assoc. *M.* Vet. Adm. Hosp., W. Roxbury

LITWIN, S. B., a.r.s. M. G. H.

Liu, C. T., r.s. *N.S.* 1946 1855 San Miguel Dr., Walnut Creek, Calif.

Lium, R., *E.S.* 1935 388 State, Portsmouth, N. H.

Livermore, G. R., Jr., *W.S.* 1943 Baptist Memorial Hosp., Memphis, Tenn.

Livingston, W. K., *W.S.* 1922 Camp Sherman, Oreg.

LIVINGSTONE, J. B., r.p. *Psychiat.* (*McL.*) McLean Hosp., Belmont

Lloyd, J. B., *E.S.* 1944; sr. r.s. 1946 Lemuel Shattuck Hosp.

Locke, E. A., *E.M.* 1902 Wilton, N. H.

Locke, H. L. F., *C.M.* 1912 293 Farmington Ave., Hartford, Conn.

Locksley, H. B., *S.* 1950; sr. r.s. *N.S.* 1956 University Hosp., State Univ. of Iowa, Iowa City, Iowa

Loeb, J. N., *M.* 1962 Presbyterian Hosp., New York, N. Y.

Loeb, R. F., *W.M.* 1920 950 Park Ave., New York, N. Y.

LOFGREN, R. H., a. *Otolar.* 330 Stuart

LOFTFIELD, R. B., assoc. biochem. *M.* M. G. H.

Lombroso, C. T., a.r.p. *N.* 1955 Children's Med. Center

LONGABAUGH, R. H., a. soc. sc. (*McL.*) McLean Hosp., Belmont

LORCH, S., a. *Math. Psychiat.* M. G. H.

LORENZ, MARIA, a. psychiat.; assoc. psychiat. (*McL.*); sr.r.p. *Psychiat.* (*McL.*) 1949 M. G. H.

Los, E., a.r.p. *An.* 1961 Monmouth Hosp., Monmouth, N. J.

Lotz, M., *M.* 1959; a.r.p. 1960 National Heart Inst., Bethesda, Md.

Lowd, H. M., Jr., *C.M.* 1941 359 Essex, Salem

Lowe, C. U., r.p. *C.M.* 1948 219 Bryant, Buffalo, N. Y.

LOWELL, F. C., p. M. G. H.

LOWELL, J. D., a. *Or.*; a.r.s. *Or.* 1953 M. G. H.

LOWELL, R., *Trustee* 100 Franklin

Lowell, W. H., Jr., a.r.p. 1940 85 Jefferson, Hartford, Conn.

Lowenstein, E., c.r.p. *An.* 1962 military service

Lowis, S., *N.S.* 1936; r.s. *N.S.* 1940 475 Commonwealth Ave.

Lowrey, S. R., r.s. *U.* 1936 170 St. George, Toronto, Canada

Luck, D. J. L., *M.* 1954; r.p. 1958 Rockefeller Inst. Med. Res., 66th and York Ave., New York, N. Y.

Ludwig, A. O., *E.M.* 1932; r.p. 1936; r.p. *Psychiat.* (*McL.*) 1937 2 W. Cedar

Ludwig, G. D., a.r.s. 1950
Hosp. of Univ. of Pennsylvania, Philadelphia, Pa.

Luessenhop, A. J., r.s. *N.S.* 1957
Georgetown Univ. Hosp., Washington, D. C.

Luikart, R. H., *W.S.* 1917
Med. Arts Bldg., Omaha, Nebr.

Luikart, R. H., II, *M.* 1944; a.r.p. *D.* 1948
1532 Anacapa, Santa Barbara, Calif.

Lund, C. C., *E.S.* 1922; h.s. *Thd. S.* 1923
319 Longwood Ave.

Lund, I., a.r.p. *An.* 1947
Ulleval Sykehus, Oslo, Norway

Lunt, L. K., *W.M.* 1916
1125 Pecos Rd., Santa Fe, N. M.

LUONGO, M. A., cons. *Forensic Path.* (*Path.* 1946); a.r.p. *Path.* 1947 H. M. S.

LUPIEN, G. F., a.r.s. *Or.* M. G. H.

Lurie, A. S., a.r.p. *D.* 1959
363 Lowell, Peabody

Lyons, C., *W.S.* 1933; r.s. 1936
Med. Coll. of Alabama, Birmingham, Ala.

Lytton, W. B., r.p. *Psychiat.* (*McL.*) 1937
St. Vincent's Hosp., St. Louis, Mo.

MABREY, R. E., a.s.
249 Commonwealth Ave.

McAlpine, F. S., c.r.p. *An.* 1957
Lahey Clinic

McARTHUR, JANET W., assoc.p.; a.r.p. 1944 M. G. H.

MacAusland, A. R., *W.S.* 1911
218 Commonwealth Ave.

MacAUSLAND, W. R., Jr., a.s. *Or.*
412 Beacon

McCann, S. M., *M.* 1949; a.r.p. 1950
Univ. of Pennsylvania Sch. of Med., Philadelphia, Pa.

McCARTEN, HELENA, exec. a. *P.H.* (*S.N.* 1933) M. G. H.

McCARTHY, P. L., a.d.
36 Adams, Quincy

McClellan, Betty J., *Path.* 1958; a.r.p. *Path.* 1960
Johns Hopkins Hosp., Baltimore, Md.

McClellan, W. S., *W.M.* 1925
Univ. of North Carolina Sch. of Med., Chapel Hill, N. C.

McCLELLAND, W. K., clin. assoc. *S.*
497 Main, Greenfield

McClung, J. L., r.p. *An.* 1952
5522 Tolman Ter., Madison, Wis.

McConnell, F., r.p. *R.* 1956
Montreal Gen. Hosp., Montreal, Canada

McCort, J. J., r.p. *R.* 1944
Santa Clara County Hosp., San Jose, Calif.

McCoy, W. T., r.p. *R.* 1960
19 Avenel Gardens Rd., Medindie, South Australia

McCully, K. S., *M.* 1960
M. G. H.

McCune, W. S., *W.S.* 1937
1150 Connecticut Ave., N.W., Washington, D. C.

McDaniel, J. R., *E.S.* 1940; a.r.s. 1946
902 Edmond, St. Joseph, Mo.

MacDermot, P. N., *C.M.* 1930
1620 Pine Ave., West, Montreal, Canada

McDermott, L. J., *Or.* 1938
151 Vaughan, Portland, Maine

McDERMOTT, W. V., Jr., v.s. (*W.S.* 1943); r.s. 1951 M. G. H.

MacDONALD, A. S., Jr., clin. assoc. *C.*
Herrick, Beverly

McDONALD, F. C., clin. assoc. *C.*
39 Main, Concord

Macdonald, H. E., Jr., *N.S.* 1931; a.r.s. *N.S.* 1933
Majuro, Marshall Islands

MacDonald, R. F., *E.S.* 1922
Box 277, Mathews, Va.

McDONALD, W., a.r.p. *An.*
M. G. H.

McElroy, W. D., *Or.* 1932
3716 Market, Youngstown, Ohio

McFarland, R. B., a.r.p. *Path.* 1959
2660 13th, Boulder, Colo.

McGahey, C. E., r.s. 1946
530 Chestnut, Manchester, N. H.

McGINN, S., clin. assoc. *M.*
264 Beacon

McGinty, J. B., a.r.s. *Or.* 1960
military service

McGOVERN, J. J. M., a. pediat.
M. G. H.

McGovney, R. B., *Or.* 1930
Box 30, Waiakoa, Maui, Hawaii

McGRATH, E. F., a. pediat.
71 Adams, Milton

McGugan, A. D., r.p. *D.* 1961
St. John's Hosp. for Dis. of the Skin, Leicester Sq., London, England

McGUIRE, M. T., r.p. *Psychiat.* (*McL.*); a.r.p. *Psychiat.* 1962
McLean Hosp., Belmont
Mach, B. F., *M.* 1959; a.r.p. 1960
Rockefeller Inst. Med. Res., 66th and York Ave., New York, N. Y.
McHUGH, CATHERINE, exec. a. (*R.N.*) M. G. H.
McHugh, P. R., r.p. *N.* 1960
Walter Reed Army Inst. Res., Washington, D. C.
McIlroy, W. J., a.r.p. *Path.* 1960
National Hosp., Queen Sq., London, England
McIntyre, Patricia A., *M.* 1953
Confederate Memorial Med. Center, Shreveport, La.
McIver, M. A., h.s. *E.S.* 1922
12 Main, Cooperstown, N. Y.
Mack, J. E., *M.* 1956
Mass. Mental Health Center
MACKAY, M., e. *R.* M. G. H.
McKay, W. W., *C.M.* 1921
R.R. 1, Aylmer, Quebec, Canada
McKEE, D. M., a.r.s. (*S.* 1957) M. G. H.
McKeever, F. M., *Or.* 1930
2010 Wilshire Blvd., Los Angeles, Calif.
McKEIGUE, J. E., assoc. s. *Otolar.*
94 Pleasant, Arlington; 274 Commonwealth Ave.
McKenna, J. B., r.p. *Psychiat.* (*McL.*) 1932
Hitchcock Clinic, Hanover, N. H.
McKenzie, W. L., r.p. *C.M.* 1924
15 Dix, Winchester
McKHANN, C. F., a.r.s. (*S.* 1956) M. G. H.
*Mackie, R. W., sr.r.s. *N.S.* 1954
U.S. Naval Hosp., Bethesda, Md.
MacKINNON, CHRISTINE, exec. a. *B.M.* (*S.N.* 1928) M. G. H.
MacKinnon, R., r.p. *Psychiat.* (*McL.*) 1930
Londonderry, Nova Scotia, Canada
McKITTRICK, J. B., a.s. (*An.* 1938 and *W.S.* 1939); r.s. *W.S.* 1942
1180 Beacon, Brookline
McKITTRICK, L. S., *Bd. of Cons.* (*W.S.* 1919) 1180 Beacon, Brookline
MacLaren, W. R., *C.M.* 1939; r.p. *C.M.* 1942 136 N. Madison Ave., Pasadena, Calif.

McLAUGHLIN, C. H., a.s. *Oph.*
834 Broadway, Everett
McLaughlin, W. B., *Or.* 1931
6077 Jenkins Arcade, Pittsburgh, Pa.
McLEAN, J. D., a. podiatrist *Or.*
38 Church, Winchester
MacLeod, G. K., a.r.p. 1962 H. M. S.
McMAHON, A. W., clin. assoc. *Psychiat.* 457 Franklin, Reading
MacMahon, C. E., *E.S.* 1938
900 Boylston Ave., Seattle, Wash.
McMEEL, J. W., a. *Oph.* 99 W. Cedar
MACMILLAN, A. S., Jr., dir. *R.* (*E.* & *E.*); r.p. *R.* 1953
319 Longwood Ave.
MacMillan, Hugh Alexander, a.r.p. *Path.* 1950
205 Kent, Charlottetown, Prince Edward Island, Canada
MacMillan, Hugh Allen, Jr., a.r.s. 1947
3535 Cherry Creek North Dr., Denver, Colo.
McMillan, R. M., a.r.p. 1941
Southern Pines, N. C.
McNEELY, W. F., a. *M.*
226 Marlborough
McNEILL, J. M., assoc. r. M. G. H.
McNie, A. B., a.r.p. *Path.* 1957
353 30th, Oakland, Calif.
Macomber, D., *S.S.* 1911
Tide River Farm, Brunswick, Maine
McPeak, C. N., r.p. *R.* 1929
Henry Heywood Memorial Hosp., Gardner
McPEEK, B., a. *An.*; a.r.p. *An.* 1962 M. G. H.
McPhedran, A. M., r.p. *N.* 1962 M. G. H.
McPherson, S. R., a.r.s. *Or.* 1949
85 Jefferson, Hartford, Conn.
Madden, E. J., a.r.s. *Or.* 1960
4 N. Gateway, Winchester
MADDEN, J. W., a.r.s. (*S.* 1959) M. G. H.
Madey, S. L., *C.M.* 1944
1401 N. Foster, Baton Rouge, La.
MAGRAW, C. E., a. attend. psychiat. (*McL.*) 1419 Beacon, Brookline
Mahoney, S. A., Jr., *E.S.* 1926
1767 Northampton, Holyoke
Maier, J., *E.M.* 1940
Rockefeller Foundation, New York, N. Y.
Maisel, B. W., r.p. *Path.* 1943
1 E. 69th, New York, N. Y.
MAJERUS, P. W., a.r.p. (*M.* 1962) M. G. H.

*Not in States and Cities section of this Directory

Makel, H. P., c.r.p. *An.* 1949
2217 Webster, San Francisco, Calif.

Malcolm, J. A., *S.* 1953; a.r.s. 1958
Vet. Adm. Hosp., 408 1st Ave., New York, N. Y.

MALOOF, F., a.p.; a.r.p. 1952 M. G. H.

Maloy, J. K., *E.S.* 1947
120 W. Ravine Rd., Kingsport, Tenn.

MALT, R. A., a. *S.* (*S.* 1956); r.s. 1962 M. G. H.

Mancall, E. L., a.r.p. *Path.* 1957
Jefferson Med. Coll. of Philadelphia, Philadelphia, Pa.

MANCALL, I. T., a. *Oph.*
750 Main, Hartford, Conn.

MANGIARACINE, ANITA B., b. *Oph.* and *Otolar.* Mass. E. & E. Inf.

Mangoni, A., a.r.p. *Psychiat.* 1960
Medical Research Council, Woodmansterne Rd., Carshalton, Surrey, England

Manly, I. V., *E.S.* 1947; a.r.s. 1952
2021 Clark Ave., Raleigh, N. C.

MANN, W., a. psychiat. M. G. H.

Mannick, J. A., *S.* 1954; a.r.s. 1960
Med. Coll. of Virginia, Richmond, Va.

Mannik, M., *M.* 1960; a.r.p. 1961
Rockefeller Inst. Med. Res., 66th and York Ave., New York, N. Y.

Mansfield, P. B., *S.* M. G. H.

Manson, Elizabeth Sprague, *C.M.* 1953
1030 Sir Francis Drake Blvd., Kentfield, Calif.

MANSON, J. G., a.r.s. *Or.* M. G. H.

MANZI, RITA A., a.r.p. *An.* M. G. H.

Marble, A., r.p. *W.M.* 1930
15 Joslin Rd.

MARBLE, H. C., hon. s. (*W.S.* 1912) M. G. H.

MARCUS, S. M., *Bd. of Cons.*
416 Marlborough

MARCY, S. M., a.r.p. *C.* (*C.* 1962) M. G. H.

Margolies, M. N., *S.* M. G. H.

MARK, V. H., a. n.s.; sr. r.s. *N.S.* 1954 M. G. H.

MARKLAND, A. C., r.s. *U.* M. G. H.

MARKS, G. A., clin. assoc. *S.* (*E.S.* 1931); r.s. *E.S.* 1933
15 Dix, Winchester

Maroney, J. W., r.p. *C.M.* 1932
1207 Delaware Ave., Wilmington, Del.

Marshall, C. S., r.p. *N.* 1927
Dept. of Public Health, Halifax, Nova Scotia, Canada

Martin, C. L., h.p. *R.* 1920
3501 Gaston Ave., Dallas, Tex.

MARTIN, D. B., a.*M.* (*M.* 1955); c.r.p. 1959 M. G. H.

Martin, J. A., *W.S.* 1946; r.p. *R.* 1951
3501 Gaston Ave., Dallas, Tex.

MARTIN, L. E., assoc. dir. and comptroller M. G. H.

Maruyama, Y., r.p. *R.* 1961
Stanford Univ. Sch. of Med., Palo Alto, Calif.

Mason, E. D., *M.* 1946
11600 Wilshire Blvd., Los Angeles, Calif.

Mason, W., *E.M.* 1920; h.p. *E.M.* 1921 151 Rock, Fall River

Massie, W. K., *Path.* 1938
304 S. Limestone, Lexington, Ky.

Matchett, F. L., *Or.* 1934
1830 Williams, Denver, Colo.

MATHÉ, A., a.r.p. *Psychiat.* M. G. H.

Mathews, S. S., *Or.* 1928
8820 Wilshire Blvd., Beverly Hills, Calif.

Mathieu, T. J., r.s. *U.* 1954
1120 W. Spruce, Yakima, Wash.

Mathis, W. H., Jr., r.p. *R.* 1948
Kennestone Hosp., Marietta, Ga.

MATTOS, E. R., a.dir. M. G. H.

MATTOSO, L. F. de Q., a.r.p. *R.* M. G. H.

MATZ, M. H., a. *D.*
51 Brattle, Cambridge

Maughs, S. B., a.r.p. *Psychiat.* 1938
Psychiatric Unit, Forty-five Hundred West Pine Clinics, 4500 W. Pine Blvd., St. Louis, Mo.

May, G. A., Jr., *S.* M. G. H.

May, H. L., a.r.s. 1959
Hôpital Albert Schweitzer, St. Marc, Haiti

Mayer, R. F., a.r.p. *N.* 1957
Boston City Hosp.

Mayman, C. I., r.p. *N.* 1961
Washington Univ. Sch. of Med., St. Louis, Mo.

MAYNARD, E. P., III, a. *M.* M. G. H.

Maynard, G. B., Jr., *W.S.* 1943
60 8th, New Bedford

MAYO, CLARA W., assoc. psychol. M. G. H.

Mayo, F. B., *E.M.* 1943; a.r.p. 1944
144 Beach Bluff Ave., Swampscott

MAYO, R. A., a. *Or.*; sr. r.s. *Or.* 1956
412 Beacon

MAZER, M., a. psychiat. N. Water,
Edgartown, Martha's Vineyard

Mazuzan, J. E., Jr., c.r.p. *An.* 1959
Mary Fletcher Hosp.,
Burlington, Vt.

Mead, S., *E.M.* 1940 and *Path.* 1941;
a.r.p. *N.* 1942
Kaiser Foundation Rehabilitation
Center, Vallejo, Calif.

Meader, C. N., *E.M.* 1912
755 Josephine,
Denver, Colo.

Mealey, J., Jr., r.s. *N.S.* 1960
Indiana Univ. Med. Center,
Indianapolis, Ind.

MEANS, J. H., hon. p. (*E.M.* 1913)
60 Mount Vernon

Means, P. H., *E.M.* 1924
1 Waterhouse, Cambridge

Meath, J. A., r.p. *N.* 1947
1114 St. Paul,
Baltimore, Md.

Meigs, J. Wister, a.r.p. 1943
310 Cedar, New Haven, Conn.

MEIGS, JOE V., *Bd. of Cons.* (*E.S.*
1921) 226 Marlborough

Meister, L., *C.M.* 1937
Vet. Adm. Hosp.,
Long Beach, Calif.

MEKKELSEN, CHRISTINE, exec. a.
(*R.N.*) M. G. H.

MELBIN, M., a. soc. sc. (*McL.*)
McLean Hosp., Belmont

Mellinger, G. W., *M.* 1947
490 Post, San Francisco, Calif.

MELLO, NANCY K., a. psychol.
M. G. H.

Melvin, W. J. S., a.r.s. *Or.* 1951
Kingston Gen. Hosp.,
Kingston, Ontario, Canada

Mendelsohn, M. L., *M.* 1949
Hosp. of Univ. of Pennsylvania,
Philadelphia, Pa.

MENDELSON, J. H., assoc. psychiat.
M. G. H.

Merrill, B. R., a.r.p. *Psychiat.* 1941
22 Peninsula Rd., Belvedere, Calif.

MESSNER, E., a. psychiat.
1 Emerson Pl.

Metcalf, K. M., r.p. *C.M.* 1925
115 E. 77th, New York, N. Y.

Meyer, H. I., r.s. *W.S.* 1925
104 S. Michigan Ave., Chicago, Ill.

Michel, A. J. D., a.r.p. *An.* 1950
70 rue Parmentier,
Lyon, France

MICHELSEN, J. J., clin. assoc. *N.S.*;
a.r.s. *N.S.* 1938 M. G. H.

Michie, A. J., *Path.* 1943; r.s. *U.* 1945
Univ. of Pennsylvania Sch. of Med.,
Philadelphia, Pa.

Michie, Catherine R., *Path.* 1943; r.p.
Path. 1944 Ivyland, Pa.

Middlebrook, G., *M.* 1945
National Jewish Hosp.,
Denver, Colo.

Milam, D. F., Jr., *S.* 1949; a.r.s. 1952
27 103rd Ave., N.E.,
Bellevue, Wash.

Millard, D. G., r.p. *R.* 1960
Box 503, Jaffrey Center, N. H.

MILLER, ABBOTT R., a.r.p. *R.*
M. G. H.

Miller, Alfred E., *S.* 1957; a.r.s. 1958
University Health Service,
Harvard College, Cambridge

MILLER, C. C., clin. assoc. *S.*
(*W.S.* 1938)
304 Humphrey, Swampscott

MILLER, D., s. *Otolar.*
60 Charlesgate West

Miller, E. C., *E.M.* 1926
27 Elm, Worcester

Miller, James G., *E.M.* 1943; r.p.
Psychiat. 1944
Mental Health Res. Inst., Univ. of
Michigan, Ann Arbor, Mich.

Miller, Jule P., Jr., a.r.p. *Psychiat.*
1955 222 South, Pittsfield

Miller, M. L., *E.M.* 1932
Univ. of North Carolina Sch.
of Med., Chapel Hill, N. C.

Miller, R. Bretney, a.r.p. 1938
1834 Eye, N. W., Washington, D. C.

Miller, Ralph B., r.p. *R.* 1932
Box 6043, Alamo Heights Station,
San Antonio, Tex.

Miller, W. L., a.r.p. *Path.* 1961
Louisville Gen. Hosp.,
Louisville, Ky.

Millet, J. B., *W.S.* 1943; a.r.s. 1948
1624 Genesee, Utica, N. Y.

MILLS, J. A., a. *M.*; r.p. 1958
M. G. H.

Mills, L., Jr., *M.* 1944
1136 W. 6th, Los Angeles, Calif.

MINER, L. M. S., hon. *s.*
363 Marlborough

MINER, R. L., a. oral s.
363 Marlborough

Ming, Si Chun, r.p. *Path.* 1956
Beth Israel Hosp.

Mintz, E. R., *Path.* 1930; r.s. *U.* 1932
8 S. State, Concord, N. H.

MIRKIN, G. B., a.r.p. *C.* M. G. H.
Mitchel, D. H., *M.* 1943; a.r.p. 1947 3535 Cherry Creek North Dr., Denver, Colo.
Mitchell, D. C., a.r.s. *Or.* 1963 Henry Ford Hosp., Detroit, Mich.
Mittel, N. S., r.p. *Psychiat.* (*McL.*) 1959 Boston Univ.-Mass. Memorial Hosp. Med. Center
Mixter, C. G., *W.S.* 1907 165 Sargent Rd., Brookline
MIXTER, C. G., Jr., a.s. (*W.S.* 1940); r.s. 1947 319 Longwood Ave.
Mixter, G., Jr., *W.S.* 1943 Flower and Fifth Ave. Hosp., New York, N. Y.
Mnaymneh, W. A., sr. r.s. *Or.* 1962 American Univ. Hosp., Beirut, Lebanon
MOBILIA, EVELYN, exec. a. (*R.N.*) M. G. H.
MODELL, A. H., assoc. attend. psychiat. (*McL.*) 1419 Beacon, Brookline
MOELLERING, R. C., Jr., a.r.p. (*M.* 1963) M. G. H.
Moffitt, H. C., Jr., *E.M.* 1942 909 Hyde, San Francisco, Calif.
MOKRASCH, L. C., a. biochem. (*McL.*) McLean Hosp., Belmont
MOLLOY, MAUREEN K., a.r.s. *Or.* M. G. H.
MONACO, A. P., r.s. (*S.* 1957) M. G. H.
MONAHAN, J. J., a.r.s. *Or.* M. G. H.
MONCURE, A. C., a.r.s. (*S.* 1961) M. G. H.
Monroe, J. T., Jr., *M.* 1956 Univ. of North Carolina Sch. of Med., Chapel Hill, N. C.
Montgomery, H., *E.M.* 1932 Hosp. of Univ. of Pennsylvania, Philadelphia, Pa.
Montgomery, O. F., *E.S.* 1916 450 Sutter, San Francisco, Calif.
MONTGOMERY, W. W., assoc.s. *Otolar.* Mass. E. & E. Inf.
Moore, B. E., r.p. *Psychiat.* 1942 152 E. 73rd, New York, N. Y.
MOORE, F. D., *Bd. of Cons.* (*W.S.* 1940); r.s. 1943 Peter Bent Brigham Hosp.
Moore, R. F., *M.* 1954 425 North, Randolph
Moore, S. Halcuit, Jr., *C.M.* 1937 4105 Live Oak, Dallas, Tex.
Moore, Sherwood, h.p. *R.* 1917 Barnes Hosp., St. Louis, Mo.
Moore, W. R., *S.* M. G. H.
Moorman, H. D., *W.S.* 1943; a.r.s. 1949 65 N. Madison Ave., Pasadena, Calif.
Mora, F., *M.* 1951; a.r.s. 1953; r.s. *N.S.* 1957 717 Encino Pl., N. E., Albuquerque, N. M.
Moran, J. E., *N.* 1928 219 Federal, Greenfield
Moran, T. W., Jr., a.r.p. *Path.* 1950 Mellon National Bank Bldg., Latrobe, Pa.
Moreton, J. R., *W.S.* 1944; j.r.s. 1945 Peter Bent Brigham Hosp.
Morgan, C. L., a.r.p. *C.M.* 1960 Children's Med. Center
Morgan, William L., Jr., *M.* 1953; r.p. 1957 Univ. of Rochester Sch. of Med. and Dn., Rochester, N. Y.
Morgan, Winfield S., r.p. *Path.* 1951 Cleveland Metropolitan Gen. Hosp., Cleveland, Ohio
Morris, H. D., *Or.* 1937 3503 Prytania, New Orleans, La.
Morris, J. McL., *E.S.* 1942; a.r.s. 1947 Yale Univ. Sch. of Med., New Haven, Conn.
MORRIS, R. H., c.r.p. *An.* M. G. H.
Morrison, G. M., *Or.* 1941 77 San Mateo Dr., San Mateo, Calif.
Morrison, H. R., *E.M.* 1936; r.p. *R.* 1939 370 Marlborough
Morrison, R. W., *E.S.* 1943 65 Sunset Parkway, Asheville, N. C.
MORRISSEY, A. M., a.s. *Oph.* 24 Rural Ave., Medford
Morrissey, E. James, *Or.* 1935; r.s. *Or.* 1936 1121 Penn Ave., Wyomissing, Reading, Pa.
MORRISSEY, EUGENE J., a.r.s. *Or.* M. G. H.
Morse, G. W., *E.S.* 1910; h.s. *E.S.* 1912 Brooks Hosp., Brookline
Morton, J. J., h.s. *E.S.* 1916 Strong Memorial Hosp., Rochester, N. Y.
MOSER, H. W., a.n.; r.p. *N.* 1959 M. G. H.
MOSHER, H. A., a.s. *Oph.* 266 Beacon
Moss, A. J., *M.* 1958; a.r.p. 1961 115 Sussex Rd., Rochester, N. Y.
MOSS, G. S., a.r.s. (*S.* 1961) M. G. H.
Mote, J. R., *W.M.* 1937 11 E. 68th, New York, N. Y.

Moyer, D. LaR., a.r.p. *Path.* 1955
Univ. of California Sch. of Med.
at Los Angeles, Los Angeles, Calif.

Mudd, S. Harvey, *M.* 1954
National Inst. of Health,
Bethesda, Md.

Mudd, Seeley G., *W.M.* 1926
523 W. 6th, Los Angeles, Calif.

Mueller, Barbara C., r.p. *Psychiat.* (*McL.*) 1959 Beth Israel Hosp.

MUELLER, E. H. J., a. psychiat. (*McL.*); r.p. *Psychiat.* 1958; r.p. *Psychiat.* (*McL.*) 1960
707 Commonwealth Ave.

MUELLER, G. C. E., a.r.s. (*S.* 1958)
M. G. H.

MUELLER, H. PETER, clin. assoc. *R.* 39 Tyler Rd., Belmont

Mueller, Harry L., *C.M.* 1935
Children's Med. Center

Muirhead, D. M., Jr., *C.M.* 1960; a.r.p. *C.* 1961
26 Greenough, Brookline

Mulford, E. H., II, a.r.s. *N.S.* 1947
748 Post Rd., Darien, Conn.

Müller, A. F., a.r.p. 1953
Hôpital Cantonal,
Geneva, Switzerland

MUNDTH, E. D., a.r.s. (*S.* 1960)
M. G. H.

Munro, Jeannette, *C.M.* 1929
2 Queenston Pl., Princeton, N. J.

Munro, N. D., *E.S.* 1942; r.s. 1944
740 W. Michigan Ave.,
Jackson, Mich.

Murphy, G. B., Jr., *S.* 1952; a.r.s. 1957
Gundersen Clinic, La Crosse, Wis.

Murphy, Grace L., r.p. *D.* 1930
601 S. Bowman Ave., Merion Station, Pa.

MURPHY, H. J., assoc. dir. M. G. H.

MURPHY, J. D., a.r.p. *An.* M. G. H.

MURPHY, W. F., attend. psychiat. (*McL.*) 82 Marlborough

Murray, D. B., a.r.p. *Path.* 1956
military service

MURRAY, J. E., clin. assoc. *S.*
Peter Bent Brigham Hosp.

Musgrave, Rhoda U., r.p. *Psychiat.* (*McL.*) 1937 Nevada State Hosp.,
Reno, Nev.

Mushatt, C., r.p. *Psychiat.* 1946
270 Commonwealth Ave.

MYERS, G. S., assoc. p. (*W.M.* 1942); c.r.p. 1943 Zero Emerson Pl.

NADAS, A. S., cons. *C.*
Children's Med. Center

NALEBUFF, E. A., a. *Or.*
18 Moore, Belmont;
1180 Beacon, Brookline

NARDI, G. L., assoc. v.s. (*E.S.* 1945); r.s. 1951 M. G. H.

Nathan, L., *Or.* 1930
Vet. Adm., Outpatient Clinic,
17 Court

NEBESAR, R. A., r.p. *R.* M. G. H.

Nellhaus, G., *C.M.* 1957; c.r.p. *C.M.* 1959
Columbia-Presbyterian Med. Center,
New York, N. Y.

Nelson, C., *E.S.* 1939 490 Post,
San Francisco, Calif.

Nelson, R. M., a.r.s. 1954
Salt Lake Clinic,
Salt Lake City, Utah

NEMIAH, J. C., psychiat.; a.r.p. *Psychiat.* 1949 M. G. H.

Neptune, E. M., *E.S.* 1928
726 W. Onondaga, Syracuse, N. Y.

Nesche, G. E., r.p. *W.M.* 1929
411 30th, Oakland, Calif.

NEUHAUSER, E. B. D., cons. *R.*
Children's Med. Center

NEUMANN, CHARLOTTE G., a. pediat. Children's Develop. Clinic,
Cambridge Health Dept., Cambridge

NEUMANN, E. T., admin. M. G. H.

Neville, C. W., Jr., r.p. *Psychiat.* (*McL.*) 1959 military service

NEW, P. F. J., assoc. r. M. G. H.

Newell, James W., *W.S.* 1943; j.r.s. 1944 Medical Plaza,
Palo Alto, Calif.

NEWELL, JOHN L., clin. assoc. *Obst.* (*E.S.* 1932) 1101 Beacon, Brookline

Newhall, H. F., *E.S.* 1906 Lynnfield

Newman, E. V., *C.M.* 1941
Vanderbilt Univ. Sch. of Med.,
Nashville, Tenn.

Newman, H. A., a.r.p. *C.M.* 1960
10 Nosband Ave.,
White Plains, N. Y.

Newstedt, J. R., r.s. 1950
108 William Howard Taft Rd.,
Cincinnati, Ohio

Nicholson, J. T., r.s. *Or* 1933
419 S. 19th, Philadelphia, Pa.

Nicosia, A. P., a.r.p. *C.M.* 1949
1554 Northern Blvd., Manhasset,
Long Island, N. Y.

Nielsen, T. W., *S.* 1949; a.r.s. 1953
60 S. 4th, East, Salt Lake City, Utah

NIKAIDO, H., a. biochem. *Biochem. Res.* M. G. H.

Nilges, R. G., r.s. *N.S.* 1951
700 N. Michigan Ave., Chicago, Ill.

Noble, C. A., Jr., *E.M.* 1931
384 Post, San Francisco, Calif.

Nobles, E. R., Jr., *S.* 1955; a.r.s. 1961
Sanders Clinic, Baptist Med. Bldg.,
Memphis, Tenn.

NOONE, P. F., a.r.p. *An.* M. G. H.

Norbury, F. B., *M.* 1949
1631 Mound Ave.,
Jacksonville, Ill.

Norcross, J. W., *E.M.* 1937
Lahey Clinic

Normann, N., a.r.p. *An.* 1951
Eastern Pennsylvania Psychiatric Inst.,
Philadelphia, Pa.

NORTON, P. L., v.s. *Or.* (*Or.* 1933);
r.s. *Or.* 1934
Concord Med. Center, Concord

NOSS, G. M., clin. assoc. *Dn. M.*
31 Bay State Rd.

NYILAS, E., a. physicist *M.*
M. G. H.

OAKLEY, J. C., a.dn.s. (*Dn.* 1959)
507 Main, Worcester

O'Brien, F. W., Jr., a.r.p. *R.* 1951
Cleveland Clinic, 2020 E. 93rd,
Cleveland, Ohio

O'BRIEN, RICHARD G., clin. assoc.
R. 697 Cambridge, Brighton

O'Brien, Robert M., *Or.* 1941
950 Francis Pl., St. Louis, Mo.

O'Brien, W. M., *M.* 1957; a.r.p. 1958
National Inst. of Health,
Bethesda, Md.

O'Connor, D. S., *Or.* 1925
237 Edwards, New Haven, Conn.

O'Connor, H., a.r.s. *Or.* 1953
591 Morton, Dorchester

Odland, G. F., *M.* 1947; r.p. *D.* 1954
Medical and Dental Bldg.,
Seattle, Wash.

OFFENBACH, BERTHA, a. *Oph.*
51 Homer, Newton Centre

Ogden, R. T., *C.M.* 1925
85 Jefferson, Hartford, Conn.

OJEMANN, R. G., a. *N.S.;* r.s. *N.S.*
1961 M. G. H.

OKAMURA, I. D., a.s. *Oph.*
Mass. E. & E. Inf.

O'Keefe, D. D., *S.* M. G. H.

O'KEEFE, E. S., hon. p.
31 Broad, Lynn

O'Keeffe, A. F., a.r.s. 1951
648 Canton Ave., Milton

Okun, M. R., a.r.p. *D.* 1960
1683 Beacon, Brookline

Olin, H. S., a.r.p. *Psychiat.* 1959; r.p.
Psychiat. (*McL.*) 1960 M. G. H.

OLIN, M. J., dn. s.
29 Commonwealth Ave.

OLIVE, G. M., Jr., a. *Oph.*
94 Pleasant, Arlington;
270 Commonwealth Ave.

O'Malley, A. F., a.r.s. *U.* 1957
496 South, Hyannis

Omer, J. A., *Or.* 1912
2648 E. 7th, Tucson, Ariz.

Organick, A. B., *M.* 1952; a.r.p. 1953
Navajo Med. Center Sanitarium,
Fort Defiance, Ariz.

Ormandy, L., *Or.* 1943
3109 10th, North, Arlington, Va.

O'ROURKE, H. J., a. podiatrist *Or.*
111 Main, Peabody

Orski, Barbara M., *C.M.* 1955; a.r.p.
C.M. 1956
Kaiser Foundation Hosp.,
Oakland, Calif.

OSBORN, JUNE E., j.a.r.p. *C.*
M. G. H.

Osborne, R. K., *M.* 1957; r.p. 1962
Dedham Med. Associates,
743 High, Dedham

Osgood, Herman A., h.p. *R.* 1919
Josiah B. Thomas Hosp., Peabody

Osgood, Howard, *E.M.* 1917
187 Linwood Ave., Buffalo, N. Y.

O'Shea, Clare Marshall, r.p. *N.* 1954
Enosburg Falls, Vt.

O'SHEA, J. A., clin. assoc. *C.;* a.r.p.
C.M. 1950 339 Haverhill, Lawrence

Osius, E. A., *W.M.* 1923
David Whitney Bldg.,
Detroit, Mich.

O'Sullivan, Renée B., a.r.p. *C.M.* 1957
Med. Office, American Embassy,
A.P.O. 156, San Francisco, Calif.

Ottenheimer, E. J., *E.S.* 1924
3707 Stanford Dr., Phoenix, Ariz.

OTTINGER, L. W., a.r.s. (*S.* 1961)
M. G. H.

OTTO, W. J., Jr., a.r.p. *R.* M. G. H.

OUELLETTE, EILEEN M., a.r.p. *C.*
(*C.* 1963) M. G. H.

Owen, W. R., *M.* 1950; r.p. 1952
6410 Fannin,
Houston, Tex.

Owyang, Pauline, *C.M.* 1943
3022 Elba Rd.,
Alexandria, Va.

Packard, G. B., *E.S.* 1916; h.s. *E.S.*
1917 227 16th, Denver, Colo.

Packert, R. C., r.p. *R.* 1958
Columbia-Presbyterian Med. Center, New York, N. Y.

PAGE, L. B., a.p. (*M.* 1950); r.p. 1956 M. G. H.

PALMER, R. S., *Bd. of Cons.* (*W.M.* 1927) 330 Dartmouth

PANT, S. S., a.r.p. *N.* M. G. H.

Papadopoulos, D. A., r.s. *U.* 1956
4 Dragoumi, Thessalonica, Greece

PAPARELLA, M. M., a. *Otolar.*
Mass. E. & E. Inf.

Papazian, C. E., a.r.p. *C.M.* 1960
Permanente Med. Group, Fontana, Calif.

PAPPAS, A. M., a.r.s. *Or.* M. G. H.

Parker, G. D., *Dn.* 1939
4919 E. 38th Ave., Denver, Colo.

Parker, Jack S., *W.S.* 1946
3 Seaward Rd., Wellesley Hills

PARKER, JOHN C., a.r.p. (*M.* 1962) M. G. H.

Parkhurst, A. E., *W.M.* 1919
Beverly Hosp., Beverly

PARKHURST, E. C., a. u.; r.s. *U.* 1958 M. G. H.

Parnall, E., *Or.* 1932
1 Med. Arts Sq., Albuquerque, N. M.

Parson, W., c.r.p. 1942
Sch. of Med., Univ. of Virginia, Charlottesville, Va.

PARSONS, ANNE, assoc. soc. anthropol. (*McL.*) McLean Hosp., Belmont

PARSONS, L., *Bd. of Cons.* (*W.S.* 1929) 203 Commonwealth Ave.

PASHO, WILLA F., admin. a. (*McL.*)
McLean Hosp., Belmont

PATHAK, M. A., a. biochem. *D.* M. G. H.

Patterson, H. E., a.r.p. *C.M.* 1952
210 S. 11th Ave., Yakima, Wash.

Patterson, Robert L., Jr., *Or.* 1935
166 E. 63rd, New York, N. Y.

Patterson, Russel H., *E.S.* 1919; h.s. *U.* 1920
166 E. 63rd, New York, N. Y.

PATTON, A. S., a.r.s. (*S.* 1959) M. G. H.

Paul, J. R., Jr., *C.M.* 1943
Medical College Hosp., 55 Doughty, Charleston, S. C.

Paul, O., *W.M.* 1943
Passavant Memorial Hosp., Chicago, Ill.

PAVLO, I. L., a. *Oph.* 330 Dartmouth

Peabody, C. W., *E.S.* 1917 and *Or.* 1920
25 Riverside Dr., Barrington, R. I.

Peabody, H. D., Jr., *M.* 1945
2001 4th Ave., San Diego, Calif.

PEARL, D. C., Jr., a.r.s. (*S.* 1959) M. G. H.

Pearse, R. L., *E.S.* 1934
604 W. Chapel Hill, Durham, N. C.

Pearson, C. M., a.r.p. *Path.* 1948
Univ. of California Med. Center, Los Angeles, Calif.

Pearson, O. H., *W.M.* 1941; a.r.p. 1942
Western Reserve Univ. Sch. of Med., Cleveland, Ohio

PECHET, M. M., a. *M.;* a.r.p. 1952 M. G. H.

Pederson, D. P., c.r.p. *An.* 1957
650 S. Central Ave., Marshfield, Wis.

PEEBLES, R. R., assoc. psychol. M. G. H.

PEEBLES, T. C., assoc. pediat. (*C.M.* 1952); c.r.p. *C.M.* 1955
100 Summer, Weston

Peete, W. P. J., *S.* 1948; r.s. 1953
Duke Univ. Med. Center, Durham, N. C.

Peiffer, Geraldine M., a.r.p. *An.* 1957
5217 Hohman Ave., Hammond, Ind.

PENDERGRASS, H. P., a.r. M. G. H.

Perkins, A., *E.S.* 1925
813 Ogden Canyon, Ogden, Utah

Perkins, J. F., Jr., *W.S.* 1938
Univ. of Chicago, Chicago, Ill.

Perkins, W. A., *E.S.* 1917; h.s. *E.S.* 1919 3001 Benvenue Ave., Berkeley, Calif.

Perley, A. I., r.p. *D.* 1948
2030 11th Ave., South, Birmingham, Ala.

PERLO, V. P., assoc. n. M. G. H.

Perrin, G. M., *C.M.* 1953; a.r.p. *C.M.* 1954 111 N. 49th, Philadelphia, Pa.

Perry, J. W., r.p. *Psychiat.* (*McL.*) 1947 2206 Steiner, San Francisco, Calif.

Perry, Jalna A., r.p. *Psychiat.* (*McL.*) 1959 Boston Univ.-Mass. Memorial Hosp. Med. Center

Persons, E. L., *E.M.* 1929; r.p. *E.M.* 1930 Duke Univ. Med. Center, Durham, N. C.

Peters, J. H., *W.M.* 1943
44 E. 23rd, New York, N. Y.

Petersen, J. A., r.p. *R.* 1956
16 Clarke, Lexington

Peterson, E. W., *M.* 1944; a.r.p. 1947
Arneill Clinic, Denver, Colo.

Peterson, Harold O., a.r.p. *R.* 1936
Univ. of Minnesota Hosp.,
Minneapolis, Minn.

Peterson, Hart deC., a.r.p. *C.* 1961
Univ. of Washington Sch. of Med.,
Seattle, Wash.

Petranek, J. R., *M.* 1954; a.r.p. 1955
2 Poplar, Ipswich

PFEFFER, W., Jr., a. pediat.
3 Seaward Rd., Wellesley

Phelps, W. M., *Or.* 1922 and *Thd. S.* 1923
3038 St. Paul,
Baltimore, Md.

Phillips, E. B., II, *C.M.* 1948; a.r.p. *C.M.* 1949
American Child Guidance
Foundation, 18 Tremont

Phippen, W. G., *S.S.* 1906
31 Chestnut, Salem

PICARD, E. H., a.n.; a.r.p. *N.* 1957
M. G. H.

PICK, W., clin. assoc. *C.;* r.p. *C.M.* 1947
42 Fox, Fitchburg

Pickard, N. S., *Or.* 1940
411 Nichols Rd., Kansas City, Mo.

PIER, A. S., Jr., assoc.p. (*W.M.* 1941); a.r.p. 1942
266 Beacon

Pier, G., *W.S.* 1943
Box 68, Truckee, Calif.

PIERCE, D. L., a. *Otolar.*
Mass. E. & E. Inf.

Pierce, F. D., r.p. *W.M.* 1931
619 E. Broward Blvd.,
Fort Lauderdale, Fla.

PIERCE, IRENE R., c. psychol. (*McL.*)
McLean Hosp., Belmont

Pietra, G. G., a.r.p. *Path.* 1962
Rheinparkstr, Birsfelden,
Basel, Switzerland

Pike, M. M., *Or.* 1929
85 Jefferson, Hartford, Conn.

Pillsbury, P. L., *W.M.* 1942
3512 Clay, San Francisco, Calif.

Pinckney, M. M., *W.M.* 1932
3500 Kensington Ave.,
Richmond, Va.

PIPPITT, R. B., a.s. *Oph.* (*E.M.* 1938 and *Path.* 1939); a.r.p. *N.* 1941
328 Washington, Wellesley Hills

PITTMAN, HELEN S., *Bd. of Cons.*
M. G. H.

Pittman, J. A., Jr., *M.* 1953; a.r.p. 1954
Vet. Adm. Hosp., Birmingham, Ala.

Pitts, J. D., *S.* 1950; a.r.s. 1956
110 Lockwood, Providence, R. I.

Placak, J. C., Jr., *W.S.* 1936
10515 Carnegie Ave.,
Cleveland, Ohio

PLOTKIN, L. H., clin. assoc. *C.* (*C.M.* 1955); a.r.p. *C.M.* 1956
Williams, at Ridge Rd.,
Longmeadow

Pohl, J. F., *Or.* 1934
78 S. 9th, Minneapolis, Minn.

POINT, W. W., assoc.p.
M. G. H.

Polak, A., a.r.p. *Path.* 1961
Univ. of Washington Sch. of Med.,
Seattle, Wash.

POLANSKY, S. C., a.dn.s.
60 Washington, Salem

POLLARD, JAMES J., r.p. *R.*
M. G. H.

Pollard, John T., Jr., r.p. *R.* 1959
81 College Ave., Somerville

POLLEN, A., assoc.s. *Oph.*
636 Beacon

PONTOPPIDAN, H., assoc. an.; c.r.p. *An.* 1958
M. G. H.

POPE, A., n.p. (*McL.*)
McLean Hosp., Belmont

Porter, H., r.p. *N.* 1946
New Eng. Center Hosp.

Porter, P. J., *C.M.* 1957; a.r.p. *C.M.* 1958
Boston City Hosp.

PORVAZNIK, J. T., Jr., a.r.s. (*S.* 1959)
M. G. H.

POSKANZER, D. C., a. n.; r.p. *N.* 1959
M. G. H.

POSTEL, S., a. *M.*
75 Mount Auburn,
Cambridge

POTSAID, M. S., assoc.r.; r. (*McL.*); r.p. *R.* 1957
M. G. H.

POTTER, M. G., a. psychiat.
1419 Beacon, Brookline

Potts, J. T., *M.* 1958; a.r.p. 1959
National Inst. of Health,
Bethesda, Md.

POULES, RUTH E., exec. a. *B.M.* (*R.N.*)
M. G. H.

POULIN, F. K., dn.s. (*Dn.* 1942)
196 Marlborough

Powell, S. M., Jr., a.r.p. *C.M.* 1947
Jefferson Med. Group,
811 S. 20th, Birmingham, Ala.

Prather, G. C., *E.S.* 1925
1180 Beacon, Brookline

Pratt, T. C., *E.S.* 1929
454 Brookline Ave.

Prensky, A. L., a.r.p. *N.* 1961 M. G. H.
PRESCOTT, R., r.p. (*M.* 1960) M. G. H.
PRICE, D. L., a.r.p. *N.* M. G. H.
Price, S. E., Jr., *S.* 1955; a.r.s. 1958; r.s. *U.* 1961
Peoples East End Bldg., Pittsburgh, Pa.
Prindle, K. H., *N.* 1926 and *W.S.* 1928 23 Baldwin Ave., San Mateo, Calif.
Probst, J.-H., a.r.p. *C.M* 1957
Rigshospitalet, Copenhagen, Denmark
Prus, A. M., c.r.p. *An.* 1961
Grace Hosp., Detroit, Mich.
PRYLES, C. V., a. pediat.
Boston City Hosp.
PUTNAM, G., *Associate Trustee*
60 Congress
Putnam, H. M., *E.M.* 1937
1025 High, Dedham
Putnam, J. J., *C.M.* 1920
28 School, Foxboro
Putnam, T. J., *E.S.* 1923
450 N. Bedford Dr., Beverly Hills, Calif.
PUTSCHAR, W. G. J., cons. *Path.* M. G. H.
Quan, S. H. Q., *Path.* 1947
44 E. 67th, New York, N. Y.
QUARTON, G. C., psychiat.; r.p. *N.* 1947; r.p. *Psychiat.* 1949; sr.r.p. *Psychiat.* (*McL.*) 1950 M. G. H.
QUINBY, J. T., a.p. (*E.M.* 1941) M. G. H.
QUINBY, W. C., Jr., a.s.; r.s. 1950 M. G. H.
Quinn, T. J., Jr., r.p. *An.* 1950
2217 Webster, San Francisco, Calif.
RABB, S. R., *Trustee*
393 D, S. Boston
RABE, E. F., a. pediat.
New Eng. Med. Center
Rabinowitz, M., a.r.p. 1955
Dept. of Med., Univ. of Chicago, Chicago, Ill.
RABKIN, M. T., a. *M.* (*M.* 1956); c.r.p. 1962 M. G. H.
RACKEMANN, F. M., hon. p. (*E.M.* 1914) 266 Beacon
Radcliffe, E. J., *Or.* 1925
67 Butterfield Ter., Amherst
Radebaugh, J. F., Jr., *C.M.* 1954; a.r.p. *C.M.* 1955
26 S. Goodman, Rochester, N. Y.
RAE, D. B., dn.s.
59 Park, Attleboro; 129 W. Elm, Brockton
Ragland, S., Jr., *M.* 1951; a.r.p. 1952
Aviation Med. Acceleration Lab., Naval Air Development Center, Johnsville, Pa.
Ragsdale, L. V., past a. dir.
Union Hosp., Fall River
RAKER, J. W., assoc. v.s. (*E.S.* 1942); r.s. 1949 M. G. H.
Ramcharan, Savitri, *C.M.* 1954
Stanford Univ. Sch. of Med., Palo Alto, Calif.
Randall, Raymond V., *M.* 1946
Mayo Clinic, Rochester, Minn.
*Randall, Russell E., Jr., a.r.p. 1956
1605th U.S. Air Force Hosp., A.P.O. 406, c/o Postmaster, New York, N. Y.
Randolph, J. G., a.r.s. 1958
Children's Med. Center
RAPIN, ANNETTE M. C., a. biochem. *Biochem. Res.* M. G. H.
RAPOPORT, R. N., cons. *Soc. Sc.* (*McL.*) McLean Hosp., Belmont
Rappleye, W. C., *W.M.* 1919
Josiah Macy, Jr. Foundation, 16 W. 46th, New York, N. Y.
Rasmussen, H., *M.* 1953; a.r.p. 1955
Rockefeller Inst. Med. Res., 66th and York Ave., New York, N. Y.
Rasmussen, Jane S., *C.M.* 1954; a.r.p. *C.M.* 1955 50 Rockledge Rd., Hartsdale, N. Y.
Ratcliffe, J. W., *W.S.* 1946
104 St. Matthews Ave., San Mateo, Calif.
Rauh, A. E., *C.M.* 1936 725 S. 2nd, Springfield, Ill.
Ray, L. F., r.p. *D.* 1939
Medical Dental Bldg., Portland, Oreg.
REAGAN, D. J., a. *Otolar.*
507 Main, Worcester
Rebello, D. J. A., a.r.p. *D.* 1954
130 Hill Rd., Bandra, Bombay, India
RECORD, E. E., a.s. *Or.* (*N.S.* 1937 and *Or.* 1941) M. G. H.
Reed, C. R., Jr., *Or.* 1936
2520 Line Ave., Shreveport, La.
REED, G. F., assoc. s. *Otolar.*
330 Stuart
REED, J. M., a.r.s. (*S.* 1961) M. G. H.

*Not in States and Cities section of this Directory

Reeves, J. D., r.p. *R.* 1951
Univ. of Florida Coll. of Med., Gainesville, Fla.

Reeves, R. J., r.p. *R.* 1926
Duke Univ. Med. Center, Durham, N. C.

REGAN, C. D. J., a. *Oph.*
99 W. Cedar

Register, J. F., *Or.* 1936
1008 Professional Village, Greensboro, N. C.

REID, D. E., *Bd. of Cons.*
221 Longwood Ave.

Reid, Elizabeth Aub, *M.* 1952
51 Brattle, Cambridge

REIDY, J. A., a.s. *Or.* (*Or.* 1939)
3 Seaward Rd., Wellesley Hills

Reilly, W. A., *C.M.* 1928
Vet. Adm. Hosp., San Francisco, Calif.

REISER, D. E., assoc. psychiat.
M. G. H.

REITH, H. C., clin. assoc. *Dn. M.*
370 Commonwealth Ave.

REMENSNYDER, J. P., Jr., a.r.s. (*S.* 1958)
M. G. H.

Revercomb, P. H., a.r.p. 1933
1031 Quarrier, Charleston, W. Va.

REYERSBACH, GERTRUD C., assoc. pediat. (*C.M.* 1943); r.p. *C.M.* 1945
330 Dartmouth

Reynolds, G. S., r.s. *Thd. S.* 1924
Oblong Rd., Williamstown

REYNOLDS, S. L., a.r.p. *C.*
M. G. H.

Rhinelander, F. W., *E.S.* 1937 and *Or.* 1938
Cleveland Metropolitan Gen. Hosp., Cleveland, Ohio

RHODES, F. I., dn.s.
1352 Beacon, Brookline

Rhodes, J. S., r.s. *U.* 1935
700 W. Morgan, Raleigh, N. C.

Rice, J. O., r.p. *Psychiat.* (*McL.*) 1959
M. G. H.

Richards, D. N., *E.S.* 1912
166 Tunnel Rd., Berkeley, Calif.

Richards, D. N., Jr., *W.S.* 1943; a.r.s. 1948
3031 Telegraph Ave., Berkeley, Calif.

Richards, R. S., r.p. *R.* 1958
Lankenau Hosp., Philadelphia, Pa.

RICHARDSON, EDWARD P., assoc. n. and n.p. (*M.* 1943); r.p. *Psychiat.* 1947
M. G. H.

RICHARDSON, ELLIOT L., *Associate Trustee*
50 Federal

RICHARDSON, G. S., a.s. (*W.S.* 1947); r.s. 1954
M. G. H.

RICHARDSON, J. R., s. *Otolar.*
403 Commonwealth Ave.

Richardson, W. R., *W.S.* 1945; a.r.s. 1950
Children's Memorial Hosp., Oklahoma City, Okla.

RICHIE, R. H., Jr., assoc. pediat.; a.r.p. *C.M.* 1957
330 Mount Auburn, Cambridge

Riddell, R. V., *E.S.* 1943 and *Path.* 1947
902 Edmond, St. Joseph, Mo.

RIEDER, S. V., c. *Clin. Chem. Lab.*
M. G. H.

Riege, D. H., *C.M.* 1947
576 Farmington Ave., Hartford, Conn.

RIEMER, K., a.s. *Oph.*
403 Commonwealth Ave.

Riley, A., *S.S.* 1909
50 Marshal, Brookline

Risley, E. H., *E.S.* 1908
Box 143, Prides Crossing

Risley, T. S., *E.S.* 1942; r.s. 1947
Beverly Hosp., Beverly

Ritchie, A. C., a.r.p. *Path.* 1954
Dept. of Path., Univ. of Toronto, Toronto, Canada

Robbins, J. B., *C.M.* 1960; a.r.p. *C.* 1961
Univ. of Florida Coll. of Med., Gainesville, Fla.

ROBBINS, L. L., c. *R.*; r.p. *R.* 1941
M. G. H.

Roberts, C. D., a.r.p. 1938
151 E. Palisade Ave., Englewood, N. J.

Robertson, C. W., *Path.* 1942 and *E.S.* 1943; r.s. 1947
203 Commonwealth Ave.

ROBERTSON, J. D., assoc. biophys. (*McL.*)
McLean Hosp., Belmont

Robertson, O. H., *W.M.* 1914
9150 Los Gatos Highway, Santa Cruz, Calif.

ROBEY, J. S., a. pediat. (*C.M.* 1953); a.r.p. *C.M.* 1956
51 Brattle, Cambridge

Robillard, Francoise Robert, a.r.p. *Path.* 1956
1676 Van Horne Ave., Montreal, Canada

Robillard, R. L., a.r.p. *N.* 1957
1676 Van Horne Ave., Montreal, Canada

Robins, E., a.r.p. *Psychiat.* 1945
Washington Univ. Sch. of Med., St. Louis, Mo.

Robinson, C. M., *W.S.* 1913
Waites Landing, Falmouth, Maine

Robinson, D. R., *M.* 1958; a.r.s. 1959; a.r.p. 1961 M. G. H.
ROBINSON, J. C., j.a.r.p. *C.* M.G.H.
ROBINSON, M., a. *Otolar.*
206 Waterman, Providence, R. I.
ROBINSON, P. M., a. psychiat. (*McL.*); r.p. *Psychiat.* (*McL.*) 1960
McLean Hosp., Belmont
ROBINSON, W. A., a.r.p. (*M.* 1963) M. G. H.
ROCK, J., hon. s. (*W.S.* 1919)
77 Glen Rd., Brookline
Rockey, E. W., *E.S.* 1914
Med. Arts Bldg., Portland, Oreg.
ROCKWOOD, ETHEL M., hon. p.
416 Marlborough
Rodgers, R. S., r.s. *U.* 1947
825 Nicollet Ave., Minneapolis, Minn.
RODKEY, G. V., assoc.v.s. (*W.S.* 1943); r.s. *Or.* 1945; a.r.s. 1950
Zero Emerson Pl.
RODMAN, C. A., II, a.r.p. *An.* (*S.* 1962) M. G. H.
Roe, B. B., *W.S.* 1943; r.s. 1950
384 Post, San Francisco, Calif.
ROGENTINE, G. N., Jr., a.r.p. (*M.* 1963) M. G. H.
Rogers, D. M., *C.M.* 1938
2 Cherry, Wenham
ROGERS, H., *Bd. of Cons.* (*E.S.* 1925)
580 Osgood, N. Andover
Rogers, O. F., *W.M.* 1913; h.p. *E.M.* 1916
140 Ogden, New Haven, Conn.
ROGERS, WILLIAM A., hon.s. (*Or.* 1924) Peacham, Vt.
ROGERS, WILLIAM P., Jr., a.s.; a.s. *Otolar.* Taylor Med. Bldg., Weston
Rolett, E. L., *M.* 1956; r.p. 1960
Sch. of Med., Univ. of North Carolina, Chapel Hill, N. C.
RONAT, JUDITH G., r.p. *Psychiat.* (*McL.*) McLean Hosp., Belmont
ROOPENIAN, A., assoc. s. *Otolar.*
475 Commonwealth Ave.
Roots, L. H., *W.S.* 1933
475 Riverside Dr., New York, N. Y.
ROPES, MARIAN W., p.; a.r.p. 1934 M. G. H.
Rosales, Remedios K., r.p. *N.P.* 1952; a.r.p. *Path.* 1954
Univ. of Santo Tomás, Manila, P. I.
Rose, A. S., *E.M.* 1934; r.p. *Psychiat.* (*McL.*) 1934 Univ. of California Med. Center, Los Angeles, Calif.
Rose, J. A., *M.* 1957; a.r.p. 1958
National Inst. of Health, Bethesda, Md.
Rose, P. F., a.r.p. *C.M.* 1959
Southwestern Med. Sch., Univ. of Texas, Dallas, Tex.
Rosen, R. B., *C.M.* 1953; a.r.p. *C.M.* 1954
Children's Hosp. of Michigan, Detroit, Mich.
Rosen, V. J., Jr., a.r.p. *Path.* 1959 M. G. H.
Rosenbaum, M., r.p. *Psychiat.* (*McL.*) 1937; r.p. *Psychiat.* 1939
Albert Einstein Coll. of Med., Bronx, N. Y.
Rosenberg, E. William, r.p. *D.* 1959
899 Madison Ave., Memphis, Tenn.
ROSENBERG, EARLE H., a. oral s. (*Dn.* 1958); r.s. *Dn.* 1960
328 Washington, Wellesley Hills; 29 Commonwealth Ave.
Rosenberg, I. H., *M.* 1960; a.r.p. 1961
National Inst. of Health, Bethesda, Md.
ROSENBLITH, JUDY F., psychol. M. G. H.
Rosenkrantz, J. G., *S.* 1954; a.r.s. 1961
6450 Given Rd., Cincinnati, Ohio
Rosenman, L. D., *E.S.* 1943; a.r.s. 1949
2320 Sutter, San Francisco, Calif.
Rosenthal, A. L., a.r.p. *D.* 1956
724 W. State, Trenton, N. J.
ROSENTHAL, M. K., a. *Pediat.;* a.r.p. *C.* 1962 1 Salem, Wakefield
ROSENTHAL, P., a. *Oph.*
416 Marlborough
ROSS, R. A., pediat.
51 Brattle, Cambridge
Rosser, C., *W.S.* 1918
1719 Pacific Ave., Dallas, Tex.
Roth, J. L. d'A., *M.* 1945
419 S. 19th, Philadelphia, Pa.
ROTH, S. I., a. *Path.* (*Path.* 1957); a.r.p. *Path.* 1958 M. G. H.
Rothberg, H. D., Jr., *M.* 1954; r.p. 1959 Princeton Med. Group, Princeton, N. J.
Rothfeld, L. J., a.r.p. *An.* 1955
military service
ROUNDS, C. E., clin. assoc. *Dn. M.* (*Dn.* 1947)
97 Columbian, S. Weymouth
ROURKE, J. A., a. *R.* M. G. H.
Rovit, R. L., r.s. *N.S.* 1958
Jefferson Med. College, Philadelphia, Pa.

ROWE, C. R., a.s. *Or.* (*Or.* 1939) M. G. H.
Rowe, J. C., *M.* 1952; r.p. 1957 490 Post, San Francisco, Calif.
Rowell, H. G., *W.S.* 1921 483 Munroe Ave., N. Tarrytown, N. Y.
ROWLAND, C. Van A., Jr., r.p. *Psychiat.* (*McL.*); a.r.p. *Psychiat.* 1962 McLean Hosp., Belmont
Rubinstein, J. H., *C.M.* 1954; a.r.p. *C.M.* 1955 Children's Hosp., Cincinnati, Ohio
RUBOY, J. S., a. *Pediat.*; a.r.p. *C.M.* 1960 Concord Med. Center, Concord
RUDY, H. A., a. *U.* 60 Brattle, Cambridge
Ruffin, M. deG., *Path.* 1939; r.p. *Path.* 1940 2015 R, N.W., Washington, D.C.
Rukes, J. M., *M.* 1950; a.r.p. 1952 3905 Sacramento, San Francisco, Calif.
Ruley, H. B., *N.S.* 1939 and *W.S.* 1941; a.r.s. 1942 Med. Arts Bldg., Oak Ridge, Tenn.
RUNGE, P. M., a. *Oph.* 140 Marlborough
Russell, H. N., Jr., *C.M.* 1939 1221 Lincoln, Lincoln Park, Mich.
RUSSELL, P. S., c. *S.* (*S.* 1949); r.s. 1956 M. G. H.
Russfield, Agnes Burt, *Path.* 1950; a.r.p. *Path.* 1951 Bio-Research Inst., Inc., 9 Commercial, Cambridge
Rutherford, Robert N., *W.S.* 1938 707 Broadway, Seattle, Wash.
Rutherford, Rondall W., *C.M.* 1933 21 Herrick Rd., Newton Centre
Rutledge, R. H., *S.* 1950; r.s. 1957 800 5th Ave., Fort Worth, Tex.
RUTSTEIN, D. D., cons. *Prev. M.* H. M. S.
Rutter, T., *E.S.* 1946; a.r.s. 1949 843 E. Main, Medford, Oreg.
Ryan, J. P., *Dn.* 1953 9 S. Main, Mechanicville, N. Y.
Ryan, Kenneth J., *M.* 1953; a.r.p. 1954 University Hosp., Cleveland, Ohio
Ryan, Kevin G., *M.* 1960 U.S.A.F. Hosp., A.P.O. 323, San Francisco, Calif.
Sabin, H. S., r.s. *U.* 1941 4903 Rockwood Parkway, N.W., Washington, D. C.
SACK, L. C., a.r.p. *R.* M. G. H.
SACK, T., a. attend. psychiat. (*McL.*); r.p. *Psychiat.* (*McL.*) 1958 75 Blake Rd., Brookline
Sahay, B. M., a.r.p. *Psychiat.* 1959 London Central YMCA, 112 Russell, London, England
Sahler, O. DeP., r.p. *R.* 1942 Mary Imogene Bassett Hosp., Cooperstown, N. Y.
Saidi, F., a.r.s. 1960 Nemazee Hosp., Shiraz, Iran
St. Aubin, P. M. G., *M.* 1948; r.p. *R.* 1953 300 Palos Verdes Blvd., Redondo Beach, Calif.
St. GOAR, W. T., a.p. (*M.* 1950); r.p. 1952 262 Beacon
Salamanca, J. J., *An.* 1943 Calle 25A, No. 13A-35, Bogotá, Colombia
SALIB, P. I., a.r.s. *Or.* M. G. H.
SALZMAN, E. W., a. *S.* (*S.* 1954); r.s. 1961 M. G. H.
Samiy, H. E., r.p. 1961 Ebtehaj, Resht, Iran
Sampson, D. A., a.r.p. *R.* 1937 Suburban Sq. Bldg., Ardmore, Pa.
Sampson, J. J., *W.M.* 1923 2211 Post, San Francisco, Calif.
Sams, B. J., Jr., r.p. 1958 2425 Geary Blvd., San Francisco, Calif.
Sanborn, F., *N.S.* 1939 Barnstable County Hosp., Pocasset
SANCHEZ, G. C., a.p. (*M.* 1950); a.r.p. 1951 330 Dartmouth
SANDERS, C. A., a. *M.* M. G. H.
Sanders, M. B., *E.S.* 1920 8 Marmion Way, Rockport
Sanders, R. W., *C.M.* 1959; c.r.p. *C.* 1961 37 Carisbrooke Rd., Wellesley Hills
Sandifer, M. G., Jr., *M.* 1948; a.r.p. 1949 Dorothy Dix Hosp., Raleigh, N. C.
SANDLER, A. I., a. *M.* (*M.* 1956); r.p. 1958 M. G. H.
Santoro, B. T., a.r.s. 1962 1 Dover Rd., Dover
Sargent, F. B., *W.S.* 1920 124 Waterman, Providence, R. I.
Sarnoff, S. J., a.r.s. 1947 National Inst. of Health, Bethesda, Md.
SARRIS, S. P., clin. assoc. *S.* (*W.S.* 1939); r.s. 1940 56 Broad, Lynn

Sasahara, A. A., a.r.p. 1957
Vet. Adm. Hosp., W. Roxbury

Saslow, G., r.p. *Psychiat.* 1943
Univ. of Oregon Med. Sch., Portland, Oreg.

Satin, D. G., a.r.p. *Psychiat.* 1960; r.p. *Psychiat.* (*McL.*) 1961
military service

Saunders, George M., *E.S.* 1928
150 E. 42nd, New York, N. Y.

Saunders, Gordon A., *E.M.* 1937
94 Pleasant, Arlington

Sawyer, C. S., r.p. *D.* 1943
184 Waterman, Providence, R. I.

SCANNELL, J. G., v.s. (*E.S.* 1941); r.s. 1946 M. G. H.

SCATCHARD, G., cons. *Or.*
M.I.T., Cambridge

SCEERY, R. T., assoc. pediat. (*C.M.* 1951); c.r.p. *C.M.* 1953
109 N. Main, Cohasset

Schaaf, R. S., *W.M.* 1943; r.p. 1948
Prudential Ins. Co. of America, Prudential Plaza, Newark, N. J.

Schapiro, R. H., *M.* 1959; r.p. 1962
M. G. H.

SCHATZKI, R., cons. v.r.
1180 Beacon, Brookline

Schatzki, S. C., r.p. *R.* 1960
military service

Schenk, W. G., Jr., *E.S.* 1946
164 Doncaster Rd., Kenmore, N. Y.

SCHEPENS, C. L., assoc. s. *Oph.*
99 W. Cedar

SCHEUPLEIN, R., a. biol. *D.*
M. G. H.

Schiebler, G. L., *C.M.* 1955; a.r.p. 1956
Univ. of Florida Coll. of Med., Gainesville, Fla.

Schimke, R. T., *M.* 1959; a.r.p. 1960
military service

Schmidt, R. A., a.r.p. *An.* 1959
201 E. Bradley Rd., Milwaukee, Wis.

SCHMITT, F. O., *Trustee*
M. I. T., Cambridge

Schnabel, T. G., Jr., a.r.p. 1947
Philadelphia Gen. Hosp., Philadelphia, Pa.

Schnack, A. G. C., *E.M.* 1917
Box 336, Corona, Calif.

Schneider, B., r.p. *R.* 1947
19 Garfield Pl., Cincinnati, Ohio

Schneider, C. C., *E.S.* 1919
231 W. Wisconsin Ave., Milwaukee, Wis.

Schneiderman, R. N., r.p. *D.* 1958
712 N. Washington, Dallas, Tex.

SCHNITZER, R. D., assoc. psychol. (*McL.*) McLean Hosp., Belmont

Schoen, E. J., a.r.p. *C.M.* 1954
Kaiser Foundation Hosp., Oakland, Calif.

Scholl, A. J., *E.S.* 1917
1930 Wilshire Blvd., Los Angeles, Calif.

SCHOLL, MARY L., assoc. pediat.
M. G. H.

Schueler, H. K., r.s. *U.* 1957
Harlan Memorial Hosp., Harlan, Ky.

SCHUKNECHT, H. F., c. *Otolar.*
Mass. E. & E. Inf.

Schuler, J. D., *C.M.* 1939
Wytheville Hosp., Wytheville, Va.

SCHULZ, M. D., r. M. G. H.

Schuntermann, P. P.-E., j.a.r.p. *C.* 1962
Duke Hosp., Durham, N. C.

SCHUPACK, M. B., r.p. *Psychiat.* (*McL.*) McLean Hosp., Belmont

Schuster, S. R., a.r.s. 1952
Children's Med. Center

SCHWAB, R. S., n.; r.p. *N.* 1935
M. G. H.

Schwartz, A. B., *C.M.* 1914
Milwaukee Children's Hosp., Milwaukee, Wis.

SCHWITZGEBEL, R., a. psychol.
M. G. H.

Schwyzer, Marguerite, a.r.p. 1946
2069 Ford Parkway, St. Paul, Minn.

SCOTT, A. W., a. *Oph.*
7 Bay State Rd.

SCOTT, D. H., a.s. *Oph.*
1 Monument Sq., Beverly

SCOTT, J. F., assoc. biophys. *M.*
M. G. H.

Scott, M. W., Jr., *W.S.* 1945
205 15th, N.W., Canton, Ohio

Scott, T., r.p. 1939
200 W. 2nd, Lexington, Ky.

SCULLY, R. E., path. M. G. H.

SEALE, E. S., assoc. s. *Oph.*
126 Bay State Rd.

Sears, J. B., *W.S.* 1929
416 Marlborough

Seed, J. C., *M.* 1946
Wellcome Res. Labs., Tuckahoe, N. Y.

Seeley, C. B., r.p. *R.* 1960
106 Elm, Belmont

Seigle, S. P., *E.M.* 1942; a.r.p. 1946
85 Jefferson, Hartford, Conn.

SEIGNE, T. D., a. *An.* M. G. H.

Sell, S., *Path.* 1961; a.r.p. *Path.* 1962
National Inst. of Health, Bethesda, Md.

Seltzer, R. A., a.r.p. *R.* 1962
Cincinnati Gen. Hosp., Cincinnati, Ohio

Selverstone, B., r.s. *N.S.* 1947
New Eng. Center Hosp.

Semrad, E. V., r.p. *Psychiat.* (*McL.*) 1938 Mass. Mental Health Center

Senghas, R. E., sr.r.s. *Or.* 1961
40 Evergreen, Framingham

Senior, B., *C.M.* 1950; a.r.p. *C.M.* 1951 M. G. H.

SENS, R., r.p. *Psychiat.* (*McL.*)
McLean Hosp., Belmont

Shaffer, F. G., *S.* 1952; r.s. *U.* 1955; a.r.s. 1956 1343 Locust Ave., Fairmont, W. Va.

Shaffer, H. A., a.r.p. *R.* 1932
Monongalia Gen. Hosp., Morgantown, W. Va.

SHANGRAW, K. A., dn.s.
96 Bay State Rd.

Shannon. E. W., r.s. *N.S.* 1944
930 Hanna Bldg., Cleveland, Ohio

Shannon, James G., *Or.* 1931
1414 Drummond, Montreal, Canada

SHANNON, JAMES M., clin. assoc. *S.* (*S.* 1948); a.r.s. 1954
79 Highland Ave., Salem

Shannon, P. W., *Or.* 1934
1927 1st Ave., North, Birmingham, Ala.

Sharpe, J. D., sr.r.p. *Psychiat.* (*McL.*) 1951 Brattleboro Retreat, Brattleboro, Vt.

SHARPE, W., Jr., a. *Psychiat.*
51 Brattle. Cambridge

SHATTUCK, G. C., cons. *T. Dis.* (*E.M.* 1906) H. M. S.

Shaw, E. B., r.p. *C.M.* 1924
Univ. of California Sch. of Med., San Francisco, Calif.

Shaw, J. L., r.s. *P.H.* 1935 and *U.* 1937 899 Madison Ave., Memphis, Tenn.

SHAW, R. S., assoc. v.s. and a. dir. of *Blood Bank and Transfusion Service* (*W.S.* 1946); r.s. 1952 M. G. H.

SHAWDON, H. H., a. *R.* M. G. H.

Shea, C. J., *E.S.* 1943
1101 Beacon, Brookline

SHEA, F. P., a. *R.* M. G. H.

SHEA, MARJORIE L., cons. for Community Relations M. G. H.

SHEAGREN, J. N., a.r.p. (*M.* 1963) M. G. H.

Shealy, C.N., sr.r.s. *N.S.* 1962 M. G. H.

Shedden, W. M., *E.S.* 1920; h.s. *U.* 1921 and *W.S.* 1922
159 S. Halifax Ave., Daytona, Fla.

SHEIN, H. M., r.p. *Psychiat.* (*McL.*)
McLean Hosp., Belmont

SHELDON, C. P., clin. assoc. *Obst.* (*E.S.* 1931) 319 Longwood Ave.

Sheldon, D. B., *S.* 1951; a.r.s. 1955
10911 Weyburn Ave., Los Angeles, Calif.

SHELTON, W. R., a. *Psychiat.*
575 Mount Auburn, Cambridge

SHERMAN, GRACE H., exec. a. *B.M.* (*S.N.* 1934) M. G. H.

SHERMAN, L. J., assoc. psychol. (*McL.*) McLean Hosp., Belmont

SHINE, K. I., a.r.p. (*M.* 1962) M. G. H.

Ship, I. I., *Dn.* 1957
Grad. Sch. of Med., Univ. of Pennsylvania, Philadelphia, Pa.

Shipley, Margaret S., *E.M.* 1943
1109 Sunset Blvd., N. Canton, Ohio

Shipman, T. L., r.s. *P.H.* 1936
Box 1663, Los Alamos, N. M.

Shirley, J. N., *W.S.* 1918
Chestnut, S. Duxbury

SHORE, S., a. *Otolar.*
60 Charlesgate West

Shorey, W. D., *E.S.* 1946; a.r.s. 1950
122 S. Michigan Ave., Chicago, Ill.

SHORT, C. L., cons.v.p. (*W.M.* 1930); c.r.p. 1933 264 Beacon

Shugar, J. L., a.r.s. *Or.* 1950
3465 Cote des Neiges Rd., Montreal, Canada

Shulman, L. B., *Dn. M.* 1961; a.r.s. *Dn. M.* 1962
Georgetown Univ. Sch. of Dn., Washington, D. C.

Shurtleff, D. B., *C.M.* 1956; a.r.p. *C.M.* 1957
Univ. of Washington Med. Sch., Seattle, Wash.

SHUTER, E. R., a.r.p. *N.* M. G. H.

SIDMAN, M., psychol. *N.* M. G. H.

SIDMAN, R. L., a. n.; a.r.p. *N.* 1956 H. M. S.

SIFNEOS, P. E., assoc. psychiat.; r.p. *Psychiat.* (*McL.*) 1950; r.p. *Psychiat.* 1952 M. G. H.

Silverman, A. C., *C.M.* 1917
608 E. Genesee, Syracuse, N. Y.

SILVERMAN, S., attend. psychiat. (*McL.*) 1265 Beacon, Brookline

SIMEONE, F. A., *Bd. of Cons.* (*W.S.* 1936); r.s. 1940
Cleveland Metropolitan Gen. Hosp., Cleveland, Ohio

SIMMONS, R. J., a. *Oph.*
5 Bay State Rd.

Simon, H., r.p. *R.* 1961
New Eng. Med. Center

Simon, R. L., *Or.* 1932
1012 E. Broward Blvd., Fort Lauderdale, Fla.

Sinclair, E. B., r.p. *C.M.* 1940
176 Evergreen, Providence, R. I.

SINESI, S. J., clin. assoc. *D.* M. G. H.

Singh, M. M., *M.* 1952; r.p. 1956
Gandhi Memorial and Associated Hosp., Lucknow, U. P., India

Singleton, J. W., *M.* 1958; r.p. 1962
Univ. of Colorado Med. Center, Denver, Colo.

Siperstein, M. D., a.r.p. 1955
Univ. of Texas Med. Sch., Dallas, Tex.

SISCOE, D. L., hon. p. (*E.M.* 1921)
1101 Beacon, Brookline

SISSON, J. H., a. *M.*
203 Commonwealth Ave.

SISSON, W. R., hon. p. (*C.M.* 1912)
203 Commonwealth Ave.

Skinner, A. L., *C.M.* 1953
3003 81st, S.E., Mercer Island, Wash.

SKINNER, D. B., a.r.s. (*S.* 1960) M. G. H.

Skinner, J. C., r.p. *Psychiat.* 1948
Boston Univ.-Mass. Memorial Hosp. Med. Center

SLATER, E. M., a. an.; a.r.p. *An.* 1960 M. G. H.

Sledge, C. B., sr. r.s. *Or.* 1962
2228 Washington Ave., Silver Spring, Md.

SLEEPER, E. L., clin. assoc. *Dn. M.*
29 Lincoln, Framingham

SLEEPER, RUTH, dir. *S.N. and Nurs. Serv.* (*S.N.* 1922) M. G. H.

SLEMONS, MARION L., a. pediat.
400 Commercial, Braintree

SLOANE, A. E., s. *Oph.*
416 Marlborough

Sloane, R. B., r.p. *Psychiat.* 1953
Dept. of Psychiat., Queen's Univ., Kingston, Ontario, Canada

SLOWICK, MARY A., exec. a. *B.M.* (*R.N.*) M. G. H.

SMEDLEY, LOIS M., a. *Pediat.*
254 French, Fall River

Smillie, J. W., *E.S.* 1944; j.r.s. 1945
326 N. Ingalls, Ann Arbor, Mich.

SMITH, CLEMENT A., cons. *C.*
221 Longwood Ave.

Smith, Curtis E., *W.M.* 1919 and *E.S.* 1921
490 Post, San Francisco, Calif.

Smith, E. T., *Or.* 1937
6410 Fannin, Houston, Tex.

SMITH, G. G., hon. s. (*W.S.* 1909)
136 Myrtle

Smith, H. W., *Dn.* 1946
100 York, New Haven, Conn.

SMITH, J. A., *Bd. of Cons.*
1180 Beacon, Brookline

SMITH, L. H., Jr., assoc. p. (*M.* 1949); c.r.p. 1956 M. G. H.

Smith, M. L., a.r.p. *An.* 1951
Mid-State Med. Center, Nashville, Tenn.

Smith, N. T., a.r.p. *An.* 1960
U.S. Naval Hosp., Portsmouth, Va.

Smith, Raphael F., *M.* 1961; a.r.p. 1962
U.S. Naval Sch. of Aviation Med., Pensacola, Fla.

Smith, Richard H., a.r.p. *Psychiat.* 1958 104 Chestnut

Smith, Richard M., *W.M.* 1909
401 Beacon

Smith, Robert P., *M.* 1943
Vermont Rehabilitation Center, Burlington, Vt.

SMITH, T. R., a.s. *Oph.* and dir. *Oph. Path.* Mass. E. & E. Inf.

Smith, W. Pierce, r.p. 1956
Henry Ford Hosp., Detroit, Mich.

SMITH, WILLIAM D., hon. p. (*W.M.* 1913) 1731 Beacon, Brookline

SMITH-PETERSEN, M., a.s. *Or.*; sr. r.s. *Or.* 1952 266 Beacon

SMITHWICK, R. H., *Bd. of Cons.* (*E.S.* 1927); r.s. *W.S.* 1928
203 Commonwealth Ave.

Sneddon, E. A., r.p. *An.* 1954
Boston Univ.-Mass. Memorial Hosp. Med. Center

SNIDER, M., assoc. psychol. *C.* M. G. H.

SNIFFEN, R. C., assoc. v. path.; r.p. *Path.* 1940
Memorial Hosp., 119 Belmont, Worcester; M. G. H.

SNOW, J. C., dir. *An.* (*E.* & *E.*)
Mass. E. & E. Inf.

Snyder, J. C., *W.M.* 1939
Harvard Sch. of Public Health

Snyder, Monica H., r.p. *An.* 1935
10883 Whipple, N. Hollywood, Calif.

Snyder, W. H., Jr., *W.S.* 1933; r.s. 1935
1400 N. Vermont Ave., Los Angeles, Calif.

Sober, S., a.r.s. *Or.* 1953
450 Central Ave., London, Ontario, Canada

SOHIER, W. D., Jr., a.p. (*M.* 1947); r.p. 1951 M. G. H.

Soholt, S. T., sr.r.s. *Or.* 1951
139 Arch, Redwood City, Calif.

SOLOMON, H. C., hon. p.; cons. psychiat. (*McL.*)
Commonwealth of Mass. Mental Health Dept., 15 Ashburton Pl.

Solomon, J., r.p. *N.* 1944
10921 Wilshire Blvd., Los Angeles, Calif.

SOLOWAY, A. H., assoc. chem. *N.S.* M. G. H.

Sosa, D., r.s. *N.S.* 1959
11 Calle 2-37, Zone 1, Guatemala City, Guatemala

Sosman, J. L., a.r.p. *R.* 1952
Robert Breck Brigham Hosp.

Soule, A. B., a.r.p. *R.* 1932
Mary Fletcher Hosp., Burlington, Vt.

SOUTTER, L., clin. assoc. *S.*; a.r.s. 1941
Vet. Adm. Area Med. Office, 330 Stuart

SOWLES, H. K., hon. s. (*W.S.* 1917); h.s. *W.S.* 1918
413 Blackstrap Rd., Falmouth, Maine

SOYKA, L. F., a.r.p. *C.* (*C.* 1962) M. G. H.

Spalding, R., *E.M.* 1902
Longwood Towers, Brookline

SPANGLER, A. S., a. *D.*; r.p. *D.* 1945
1101 Beacon, Brookline

Spangler, P. E., *W.S.* 1925
2747 S. W. Roswell Ave., Portland, Oreg.

SPANN, J. F., Jr., a.r.p. (*M.* 1962) M. G. H.

SPARLING, P. F.. a.r.p. (*M.* 1963) M. G. H.

Spear, L. M., *E.M.* 1906
483 Beacon

SPEARE, G. S., *Bd. of Cons.* (*W.S.* 1927)
353 Commonwealth Ave.

SPELLMAN, J. W., *Bd. of Cons.* (*Thd. S.* 1924 and *W.S.* 1926)
1101 Beacon, Brookline

Spence, H. M., *W.S.* 1932; r.s. *U.* 1934
4105 Live Oak, Dallas, Tex.

Spencer, J. Robert, *E.M.* 1943
1829 High, Denver, Colo.

Spencer, Jack, r.p. *R.* 1934
Union Hosp., Fall River

SPENCER, KATHERINE, res. assoc. *Soc. Anthropol.* (*McL.*)
Boston Univ. Sch. of Social Work

Spencer, R. E., a.r.p. *An.* 1951
Moses H. Cone Memorial Hosp., Greensboro, N. C.

Sphire, R. D., a.r.p. *An.* 1955
Grace Hosp., Detroit, Mich.

SPILLANE, J. B., r.p. *Psychiat.* (*McL.*)
McLean Hosp., Belmont

SPIRO, MARY J., a. biochem. *M.* M. G. H.

Splithoff, C. A., *Or.* 1942
485 34th, Oakland, Calif.

Sporer, Edita Sternova, *An.* 1942
459 Park Ave., Paterson, N. J.

SPRAGUE, H. B., *Bd. of Cons.* (*E.M.* 1924)
1180 Beacon, Brookline

Squire, Lucy F., a.r.p. *R.* 1944
1 Gracie Ter., New York, N. Y.

SQUIRES, H. J., a. podiatrist *Or.*
145 Tremont

Stall, B. G., III, *M.* 1947; r.p. 1949
Univ. of Tennessee Memorial Res. Center and Hosp., Knoxville, Tenn.

STALVEY, H. D., a. attend. psychiat. (*McL.*)
1419 Beacon, Brookline

STANBURY, J. B., p. (*W.M.* 1941); c.r.p. 1948 M. G. H.

STANTON, A. H., c. psychiat. (*McL.*); psychiat.
McLean Hosp., Belmont

Staples, O. S., Jr., *Or.* 1938
Hitchcock Clinic, Hanover, N. H.

Starke, R. D., *M.* 1959; a.r.p. 1960
490 Post, San Francisco, Calif.

Starobin, O. E., *M.* 1955; a.r.p. 1956
27 Elm, Worcester

Starr, I., *W.M.* 1922
Sch. of Med., Univ. of Pennsylvania, Philadelphia, Pa.

STASON, W. B., a.r.p. (*M.* 1961) M. G. H.

States, J. D., a.r.s. *Or.* 1955
15 Prince, Rochester, N. Y.
STAUFFER, RUTH E., a. *N.*; r.p. *N.* 1949 M. G. H.
Stearns, T., *E.S.* 1913 and *Or.* 1914
736 Haxtun Ave., Orange, N. J.
STEBBINS, H. D., clin. assoc. *M.* (*E.M.* 1933) 342 Essex, Salem
STECKEL, R. J., a.r.p. *R.* M. G. H.
Steel, D., r.p. *R.* 1925 E. Falmouth
Steele, B. W., Jr., a.r.s. 1952
Utica Sq. Med. Center, Tulsa, Okla.
STEELE, J. L., a.r.p. *Path.* M. G. H.
Steenburg, D. B., *E.S.* 1915
1018 12th, Aurora, Nebr.
Steenburg, E. K., *E.S.* 1919
4200 Cathedral Ave., N.W., Washington, D. C.
STEMPIEN, J. H., dn.s. (*Dn.* 1960); r.s. *Dn. M.* 1961
328 Washington, Wellesley Hills; 29 Commonwealth Ave.
Stenger, R. J., a.r.p. *Path.* 1958
Cincinnati Gen. Hosp., Cincinnati, Ohio
Stephens, W. A., *Or.* 1943
Pasteur Med. Bldg., St. Louis, Mo.
STEPHENSON, MARY L., a. biochem. *M.* M. G. H.
Stern, N. S., *E.M.* 1917
899 Madison Ave., Memphis, Tenn.
STERNSTEIN, H. J., assoc. s. *Otolar.*
54 Winter, Norwood
Stetson, J. B., a.r.p. *An.* 1953
Children's Med. Center
Stetson, R. P., *W.M.* 1928
Vet. Adm. Area Med. Office, 30 Cornhill
Stevens, Harold W., *C.M.* 1914 and *E.M.* 1916
369 Ferry Rd., Saco, Maine
Stevens, Horace P., *W.S.* 1907
Boothbay Harbor, Maine
Stewart, James M., *M.* 1946
344 West Ave., Rochester, N. Y.
Stewart, John D., *E.S.* 1930; r.s. *W.S.* 1933
Edward J. Meyer Memorial Hosp., Buffalo, N. Y.
Stewart, John E., a.r.s. *Or.* 1947
1120 Cherry, Seattle, Wash.
Stewart, S. F., *Or.* 1921
1133 Punchbowl, Honolulu, Hawaii
Stewart, William C., *W.M.* 1934
1205 Quarrier, Charleston, W. Va.
STEWART, WILLIAM G., Jr., a.r.s. *Or.* (*S.* 1960); a.r.s. 1961 M. G. H.
Stiefel, D. M., *Or.* 1923
1553 Woodward Ave., Detroit, Mich.
Stiff, D. W. S., r.p. *R.* 1950
430 Monterey Ave., Los Gatos, Calif.
Stiles, Claire M., a.r.p. *An.* 1962
11523 Adco, Downey, Calif.
Stiles, Q. R., *S.* 1956; a.r.s. 1962
10720 S. Paramount Blvd., Downey, Calif.
Stinchfield, A. J., a.r.s. *Or.* 1949
16 E. Chestnut, Augusta, Maine
STOCKS, J. F., clin. assoc. *C.*; a.r.p. *C.* 1961 67 Silver, Waterville, Maine
Stoddard, J. K., *E.M.* 1917
R.D. 4, Easton, Md.
STODDARD, L. T., a. psychol. *N.* M. G. H.
STOECKLE, J. D., assoc. p. (*M.* 1949); r.p. 1951 M. G. H.
STOFFYN, ANNE M., a. biochem. (*McL.*) McLean Hosp., Belmont
STOFFYN, P. J. J., assoc. biochem. (*McL.*) McLean Hosp., Belmont
Stokes, J., Jr., *W.M.* 1921
Children's Hosp., Philadelphia, Pa.
Stokes, J., III, r.p. 1954
Queen's Hosp., Honolulu, Hawaii
Stolman, J. M., *Dn.* 1956
18 Asylum, Hartford, Conn.
STONE, A. A., a. psychiat. (*McL.*); r.p. *Psychiat.* (*McL.*) 1958
McLean Hosp., Belmont
STONE, BARTLETT H., clin. assoc. *Obst.* 1101 Beacon, Brookline
Stone, Bernard B., r.s. *N.S.* 1955
65 Elm, Worcester
STONE, L. A., r.p. *Psychiat.* (*McL.*)
McLean Hosp., Belmont
STONE, W., Jr., a.s. *Oph.*
478 Commonwealth Ave.
Stout, H. A., *Path.* 1938; r.p. *Path.* 1939
1200 N. Walker, Oklahoma City, Okla.
Stout, K. L., r.p. *D.* 1935
4418 Vineland Ave., N. Hollywood, Calif.
Stovner, J., a.r.p. *An.* 1953
Fethlitzgt 1, Oslo, Norway
Straehley, C. J., Jr., *W.S.* 1947; a.r.s. 1953 1200 E. Genesee, Syracuse, N. Y.

STRASBURGER, L. H., r.p. *Psychiat.* (*McL.*) McLean Hosp., Belmont

STRATTON, KATHLEEN, a. physicist *M.* M. G. H.

Strauss, A. E., *E.M.* 1916
3720 Washington Ave., St. Louis, Mo.

STRAUSS, F., II, a. dir. M. G. H.

STRAUSS, J. S., r.p. *Psychiat.* (*McL.*) McLean Hosp., Belmont

Strayer, L. M., Jr., *Or.* 1939
144 Golden Hill, Bridgeport, Conn.

STRICKLER, W. L., r.s. *U.*; a.r.s. 1958 M. G. H.

STROLE, W. E., Jr., r.p. (*M.* 1959) M. G. H.

Strom, J. O., r.p. *N.P.* 1955
150 Lloyd Ave., Providence, R. I.

Stunkard, A. J., *M.* 1946
Hosp. of Univ. of Pennsylvania, Philadelphia, Pa.

Sturdevant, C. L., *Or.* 1939
234 Marlborough

STURGIS, G. P., a.p.
1101 Beacon, Brookline

Sturgis, S. H., *E.S.* 1933
Peter Bent Brigham Hosp.

SUBY, H. I., v.u.; r.s. *P.H.* 1937 and *U.* 1939 262 Beacon

Sugiyama, T., j.r.s. 1944; r.s. *U.* 1946
Metz Bldg., Grand Rapids, Mich.

Sullivan, E. R., *E.M.* 1936 and *Path.* 1937; r.p. 1941
139 Adams, Milton

SULLIVAN, G. L., s. *Oph.* M. G. H.

Summerall, C. P., III, *M.* 1956; a.r.p. 1957
Med. Coll. of South Carolina, Charleston, S. C.

Surls, J. K., *Or.* 1920 and *E.S.* 1922
Box 44, Gracie Sq. Station, New York, N. Y.

Sussman, M. L., r.p. *R.* 1930
1130 E. McDowell Rd., Phoenix, Ariz.

Sutherland, D. W., *M.* 1958; r.p. 1960
2455 N.W. Marshall, Portland, Oreg.

Sutherland, G. F., r.p. *Psychiat.* (*McL.*) 1941
Dept. of Mental Hygiene, 2218 N. Charles, Baltimore, Md.

Sutphin, A. K., *W.M.* 1943; a.r.p. 1946 1805 Monument Ave., Richmond, Va.

Suyama, E., *S.* 1951; a.r.s. 1955
Maine Coast Memorial Hosp., Ellsworth, Maine

Swaim, L. T., *W.S.* 1912
Nutting Rd., Groton

Swan, Channing S., *W.S.* 1925
2 Willow Rd., Weston

Swan, Charles L., Jr., *W.S.* 1929
262 Beacon

SWARTZ, J. H., *Bd. of Cons.*
483 Beacon

SWARTZ, MORRIS, a. *Otolar.*
18 Broad, Lynn

SWARTZ, MORTON N., assoc.p. (*M.* 1948); c.r.p. 1953 M. G. H.

Sweeny, D. N., Jr., *W.S.* 1941; r.s. 1943 Riverside Clinic, Detroit, Mich.

Sweet, E. B., a.r.s. *Or.* 1954
85 Jefferson, Hartford, Conn.

Sweet, P. L., *Dn.* 1949; a.r.s. *Dn.* 1950
1 Padanaram Rd., Danbury, Conn.

Sweet, R. B., a.r.p. *An.* 1950
University Hosp., Ann Arbor, Mich.

SWEET, W. H., c. *N.S.* (*N.S.* 1936); r.s. *N.S.* 1941 M. G. H.

Sweetnam, G. H., *Dn.* 1937
743 High, Dedham

Swineford, O., Jr., *W.M.* 1927
Univ. of Virginia Hosp., Charlottesville, Va.

Sycamore, L. K., a.r.p. *R.* 1929
Hitchcock Clinic, Hanover, N. H.

SZABÓ, G., a. biol. *D.* M. G. H.

Tabor, Celia White, *M.* 1945
3130 Wisconsin Ave., N. W., Washington, D. C.

TAFT, E. B., path. M. G. H.

TAFT, PRISCILLA D., a. path. M. G. H.

Talalay, P., *S.* 1949; a.r.s. 1950
Dept. of Med., Univ. of Chicago, Chicago, Ill.

Talamo, R. C., *C.* 1962
Pediat. Metab. Group, National Inst. of Health, Bethesda, Md.

Talbert, O. R., r.p. *N.* 1953
Med. Coll. of South Carolina, Charleston, S. C.

TALBOT, F. B., hon. p. (*E.M.* 1907)
24 Cottage Farm Rd., Brookline

TALBOT, N. B., c. *C.* M. G. H.

Talin, J. J., *Or.* 1943
275 Hoosick, Troy, N. Y.

TALLAND, G. A., psychol. M. G. H.

Tallon, J. B., a.r.p. *R.* 1953; sr.r.s. *Or.* 1959 57 Roy, Kitchener, Ontario, Canada

Talmadge, S. McN., *W.S.* 1938; r.s. *P.H.* 1939 1010 Prince Ave., Athens, Ga.

Tan, Chung-Chang, *Or.* 1943 1951 N. Fresno, Fresno, Calif.

Tandon, R., r.p. 1960 Children's Med. Center

Tanner, James W., r.p. *R.* 1962 2106 Hayes, Wichita Falls, Tex.

Tanner, Joseph B., sr.r.s. *Or.* 1954 300 Homer Ave., Palo Alto, Calif.

Tannheimer, J. F., r.p. *Path.* 1945; a.r.p. 1948 525 Lafayette, Ionia, Mich.

Tatlock, H., *W.M.* 1940 264 Elm, Northampton

TAYLOR, G. W., *Bd. of Cons.* (*W.S.* 1924); r.s. *E.S.* and *W.S.* 1925 Taylor Med. Bldg., Weston

Taylor, I. M., *M.* 1946; c.r.p. 1951 Univ. of North Carolina Sch. of Med., Chapel Hill, N. C.

TAYLOR, JOHN B., a.dn.s. (*Dn.* 1957) 571 High, Westwood

Taylor, John H., *E.M.* 1917 37 Marlborough

Teel, C. E., *W.S.* 1925 8715 N.E. 3rd Pl., Bellevue, Wash.

TEFFT, R. C., Jr., *Bd. of Cons.* Box 72, Cleverdale, N. Y.

TEMBY, W. D., a. attend. psychiat. (*McL.*) 51 Brattle, Cambridge; 328 Washington, Wellesley

TENNEY, B., Jr., *Bd. of Cons.* (*W.S.* 1927) Boston City Hosp.

Tenney, Vivian A., a.r.s. *Gyn.* 1943 108 E. 86th, New York, N. Y.

Tetirick, J. E., *S.* 1952; a.r.s. 1956 131 S. Grant Ave., Columbus, Ohio

Thacher, H. C., *C.M.* 1942 117 Goff, Auburn, Maine

Thatcher, B. van H., *E.S.* 1945; a.r.s. 1950 1020 S.W. Taylor, Portland, Oreg.

Thaxter, L. T., *E.M.* 1916; a.r.p. *R.* 1928 Cumberland Foreside, Portland, Maine

THEOPOLD, P. H., *Trustee* 294 Washington

Theus, W. W., *Dn.* 1952 1513 Gregg, Columbia, S. C.

THIER, S. O., a.r.p. (*M.* 1961) M. G. H.

THOMA, K. H., hon. s. 1146 Beacon, Brookline

Thomas, Anne G. T., a.r.p. *Path.* 1956 73 Station Rd., Llanishen, Cardiff, Wales

Thomas, H. M., Jr., *W.M.* 1917 314 Overhill, Baltimore, Md.

THOMAS, JACKSON M., a. *Psychiat.*; r.p. *Psychiat.* (*McL.*) 1933 319 Longwood Ave.

Thomas, John B., *M.* 1953; a.r.p. 1954 124 Jefferson, Hartford, Conn.

Thomas, R. L., *N.S.* 1933 and *E.S.* 1936 2844 Summit, Oakland, Calif.

Thomas, W. A., a.r.p. *Path.* 1951 Albany Med. Coll., Albany, N. Y.

THOMPSON, E. B., III, a.r.s. *Or.* M. G. H.

Thompson, J. E., *E.S.* 1943; r.s. *N.S.* 1945; a.r.s. 1948 1008 N. Washington Ave., Dallas, Tex.

Thompson, M. S., *Or.* 1934; r.s. *Or.* 1935 Nix Professional Bldg., San Antonio, Tex.

Thompson, P. P., Jr., *W.M.* 1942; a.r.p. 1946 704 Congress, Portland, Maine

THOMPSON, R. H., clin. assoc. *S.* (*E.S.* 1937); r.s. 1940 79 Highland Ave., Salem

Thompson, S. B., a.r.s. *Or.* 1947 5520 W. Markham, Little Rock, Ark.

Thompson, W. Taliaferro, Jr., a.r.p. 1941 Med. Coll. of Virginia, Richmond, Va.

Thompson, Walter A., r.p. *Psychiat.* (*McL.*) 1931 Pinewood, Katonah, N. Y.

Thomson, C. P., r.p. *Psychiat.* (*McL.*) 1962 Medical Div., Peace Corps, Washington, D.C.

THORNDIKE, A., *Bd. of Cons.* (*W.S.* 1923) 509 Hammond, Chestnut Hill

Thornton, C. E., a.r.p. *Psychiat.* 1958 2 Sylvan, Danvers

Thorp, E. G., *E.M.* 1931 Malden Hosp., Malden

Thurlbeck, W. M., a.r.p. *Path.* 1958 McGill Univ., Montreal, Canada

TIBBETTS, MARGARET C., dir. *S.N. and Nurs. Serv.* (*McL.*) McLean Hosp., Belmont

Tileston, W., *E.M.* 1900 Box CC, Carmel Valley, Calif.

TILLEY, R. F., a. d. 1180 Beacon, Brookline

TIMBERLAKE, W. H., assoc. n.; r.p. *N.* 1949 Lemuel Shattuck Hosp., Jamaica Plain; M. G. H.

Timm, A. B., Jr., r.p. *D.* 1956 36 W. Main, Milford, Conn.

TINGEY, W. H., Jr., a.dn.s.; a.dn.s. (*McL.*) (*Dn.* 1959) 31 Church, Winchester

Tisdale, W. A., *M.* 1952; r.p. 1956 Dartmouth Med. Sch., Hanover, N. H.

Tobin, W. J., *Or.* 1939 1835 Eye, N.W., Washington, D.C.

TOCH, R., assoc. pediat. 98 Adams, Milton

Todd, B. P., *W.M.* 1938 1 Monument Sq., Beverly

TODD, D. P., an.; r.p. *An.* 1947 M. G. H.

Toll, G. D., *S.* 1952; a.r.s. 1957; a.r.p. *Path.* 1959 Presbyterian Hosp., Denver, Colo.

TOLL, KAREL van S., a. n. 197 Coolidge Hill Rd., Cambridge

TOLMAN, M. M., d. 636 Beacon

TOMCHIK, F. S., a.r.; r.p. *R.* 1955 M. G. H.

Tompkins, D. G., sr.r.s. *Or.* 1958 Gundersen Clinic, La Crosse, Wis.

Tompkins, J. B., r.p. *Psychiat.* (*McL.*) 1937 75 Linden, Brattleboro, Vt.

Toriello, J., r.p. *R.* 1955 4a Calle 6-35, Zone 1, Guatemala City, Guatemala

Tow, P. M., a.r.p. *Psychiat.* 1954 111 Balaam, London E. 13, England

Towery, B. T., r.p. 1946 323 E. Chestnut, Louisville, Ky.

TOWNSEND, J. H., *Bd. of Cons.* (*W.M.* 1923) M.I.T., Cambridge

TRACHTENBERG, H. A., a.r.p. *An.* M. G. H.

Tracy, R. J., *E.S.* 1943; a.r.s. 1949 153 South, Pittsfield

TRAKAS, J. C., a. *Otolar.* 1269 Beacon, Brookline

Trapp, C. E., r.p. *Psychiat.* (*McL.*) 1937 99 Bay State Rd.

Traver, C. A., *W.S.* 1927 28 Willett, Albany, N. Y.

Traver, R. F., *E.S.* 1930 Vet. Adm. Hosp., Bath, N. Y.

Trethowan, W. H., a.r.p. *Psychiat.* 1951 Univ. of Sydney, Sydney, New South Wales, Australia

Trevett, L. D., a.r.p. 1933; r.p. *N.* 1934 412 Beacon

TRIEGER, N., a. oral s. (*Dn.* 1955); a.r.s. *Dn.* 1956 29 Commonwealth Ave.

Tripp, C. C., *W.S.* 1923 97 Madison, New Bedford

Troppoli, D. V., *N.* 1927 380 Broadway, Providence, R. I.

Trowbridge, E. H., Jr., a.r.p. *N.* 1940 Plaza Time Bldg., Kansas City, Mo.

Troxler, E. R., *Or.* 1942 1005 Professional Village, Greensboro, N. C.

TRUMAN, J. T., c.r.p. *C.* (*C.* 1961) M. G. H.

TRUMP, J. G., cons. *Physics* M. I. T., Cambridge

Tucker, J. T., *Or.* 1930 116 E. Franklin, Richmond, Va.

Tucker, R. P., *W.S.* 1939; a.r.s. 1940 115 N. Ware Ave., East Point, Ga.

Tucker, W. I., r.p. *Psychiat.* 1944 Lahey Clinic

TUDOR, F., clin. assoc. *M.* 51 Randolph Ave., Milton

Turner, J. D., *M.* 1957; a.r.p. 1958 National Inst. of Health, Bethesda, Md.

Tuttle, E. P., Jr., *M.* 1952; a.r.p. 1953 Emory Univ. Med. Sch., Atlanta, Ga.

Twombly, G. H., *W.S.* 1932 842 Park Ave., New York, N. Y.

Tyson, R. G., a.r.p. *C.M.* 1950 733 Washington Rd., Pittsburgh, Pa.

ULFELDER, H., c. *Gyn.* (*E.S.* 1939); r.s. *E.S.* 1941 M. G. H.

Ulick, S. C., *C.M.* 1952 Vet. Adm. Hosp., 130 W. Kingsbridge Rd., Bronx, N. Y.

Ulmer, J. L., r.s. *N.S.* 1942 McGuire Vet. Adm. Hosp., Richmond, Va.

Urist, M. R., sr. r.s. *Or.* 1947 1019 Grayley Ave., Westwood Village, Los Angeles, Calif.

Urmy, T. V., *E.M.*, 1928; r.p. *E.M.* 1930 Williams College, Williamstown

URQUHART, J., III, a.r.s. (*S.* 1960) M. G. H.

Urschel, H. C., Jr., *S.* 1956; r.s. 1962 3810 Swiss Ave., Dallas, Tex.

Uyeda, C. I., *C.M.* 1950; a.r.p. *C.M.* 1951 2425 Geary Blvd., San Francisco, Calif.

Vagelos, P. R., *M.* 1955; a.r.p. 1956 National Inst. of Health, Bethesda, Md.

van AMERONGEN, SUZANNE T., assoc. attend. psychiat. (*McL.*) 315 Dartmouth

Van Buskirk, D., *M.* 1958; a.r.p. 1959 Mass. Mental Health Center

Vance, L. A., *Path.* 1937; r.p. *R.* 1939 262 Beacon

Vance, R. G., r.p. *R.* 1924 262 Beacon

VANDERPOL, M., a. psychiat. (*McL.*) 61 Eaton Rd., Needham

Vanderveen, J. L., c.r.p. *An.* 1955 Boston Univ.-Mass. Memorial Hosp. Med. Center

VAN DYKE, WILHELMINA, a. pediat. (*C.M.* 1942); r.p. *C.M.* 1943 16 Spafford Rd., Milton

Van Eerde, A., a.r.p. *An.* 1955 Paterson Gen. Hosp., Paterson, N. J.

VAN GORDER, G. W., hon. s. 36 Regent, W. Newton

Van Nüys, F., *E.M.* 1907 338 Boston Post Rd., Weston

van Ravenswaay, A. C., *Path.* 1934 708 N. Country Club, Tucson, Ariz.

van Ravenswaay, T., a.r.p. *Path.* 1957 2009 Parkade Blvd., Columbia, Mo.

Varney, H. I., r.p. *Psychiat.* (*McL.*) 1938 5904 Connecticut Ave., Chevy Chase, Md.

Vaughan, R. H., *E.S.* 1944 Physicians Bldg., Columbus, Ga.

Vaughan, V. C., III, *C.M.* 1943 Med. Coll. of Georgia, Augusta, Ga.

Veazey, P. M., *C.M.* 1956; a.r.p. *C.M.* 1957 20119 Van Aken Blvd., Cleveland, Ohio

Veldee, M. V., *E.M.* 1920 1855 Bay Laurel Dr., Menlo Park, Calif.

VERHOEFF, F. H., cons. c. *Oph.* 252 Pleasant, Marblehead

Vesell, E S., *C.M.* 1960 Rockefeller Inst. Med. Res., 66th and York Ave., New York, N. Y.

Vial, A. B., *E.S.* 1943 University Hosp., Ann Arbor, Mich.

VICKERY, A. L., Jr., path. M. G. H.

VIETS, H. R., hon. p. Longwood Towers, Brookline

VILLEE, DOROTHY B., a. pediat. (*C.M.* 1956) M. G. H.

Vitt, R. J., a.r.s. *Or.* 1951 793 N. Cherry Ave., Tulare, Calif.

Voke, E. L., j.r.p. *R.* 1931 Ohio Bldg., Akron, Ohio

Volwiler, W., *M.* 1944; r.p. 1945 Univ. of Washington Sch. of Med., Seattle, Wash.

von FELSINGER, J. M., psychol. M. G. H.

von Meysenbug, L., *C.M.* 1917 and *W.M.* 1918 123 New Haven Ave., Melbourne, Fla.

Waddell, W. R., *W.S.* 1944; r.s. 1951 Univ. of Colorado Sch. of Med., Denver, Colo.

WADDINGTON, E. J., dn.s. 6 Haverhill, Andover

WADSWORTH, G. P., cons. *Math. Physics Res. Lab.* M.I.T., Cambridge

WAKSMAN, B. H., assoc. b. *N.* M. G. H.

Waldman, J., a.r.s. *Or.* 1949 1616 Grand Ave., Waukegan, Ill.

Waldmann, Katharine Spreng, *M.* 1955; r.p. 1957 3910 Rickover Rd., Silver Spring, Md.

Waldmann, T. A., *M.* 1956 National Inst. of Health, Bethesda, Md.

Waldron, A. M., *E.M.* 1938; a.r.p. 1939 309 N. Ingalls, Ann Arbor, Mich.

Waldron, R. L., II, *S.* M. G. H.

Walke, J. T., a.r.p. *C.M.* 1948 303 Washington Ave., S.W., Roanoke, Va.

Walker, E., past a. dir. Pembroke, Bermuda

Walker, G. M. a.r.s. 1951 52 Hartwell, Fitchburg

Walker, J. K., *Dn.* 1954 42 W. Brook, Manchester, N. H.

Walker, R. H., a.r.p. *Path.* 1951; a.r.s. 1953 Med. Center Bldg., Calgary, Alberta, Canada

Wallace, E. P., a.r.p. *C.M.* 1948 71 Parker Ave., Meriden, Conn.

Wallwork, D. W., *E.S.* 1932 5 3rd, N. Andover

Walser, M., *M.* 1949; a.r.p. 1950 Johns Hopkins Univ. Sch. of Med., Baltimore, Md.

WALTER, M. M., Jr., a. psychiat. (*McL.*); a.r.p. *Psychiat.* 1955; r.p. *Psychiat.* (*McL.*) 1958
McLean Hosp., Belmont
WALZER, SARITA G., a. *An.*
M. G. H.
WANG, CHIU-AN, a. *S.* (*W.S.* 1944); a.r.s. 1946 Zero Emerson Pl.
WANG, CHIU-CHEN, assoc. r.; r.p. *R.* 1952 M. G. H.
Wang, Shen Kuang, a.r.s. *Or.* 1957
507 Fairmont Ave., Fairmont, W. Va.
Wang, Yang, *M.* 1953; r.p. 1957
Univ. of Minnesota Hosp., Minneapolis, Minn.
Ward, A. J., *E.S.* 1929
Community Med. Group, Boonton, N. J.
Ward, J. L., *E.M.* 1935
600 Scranton Ave., Lake Bluff, Ill.
WARE, R. G., a.r.p. *R.* M. G. H.
Waring, E. S., *E.M.* 1919
700 W. Main, Fairfax, Va.
WARNER, F. A., a. *M.*
John Hancock Mut. Life Ins. Co.
Warner, J. H., *W.M.* 1937
Student Health Service, Oberlin Coll., Oberlin, Ohio
Warren, C. F., *W.M.* 1933
200 Hicks, Brooklyn, N. Y.
WARREN, R., *Bd. of Cons.* (*W.S.* 1936) Peter Bent Brigham Hosp.
Warren, S. L., *W.M.* 1924
Med. Sch. of Univ. of California South, Los Angeles, Calif.
WASHBURN, S. L., a. psychiat. (*McL.*); a.r.p. *Psychiat.* 1956; r.p. *Psychiat.* (*McL.*) 1957
McLean Hosp., Belmont
WATKINS, A. L., c. *Phys. M.* and a.p.; a.r.p. *N.* 1938 M. G. H.
WATSON, BARBARA K., a.b.
M. G. H.
Watson, J. Laxton, r.s. *U.* 1930
2571 S.W. 37th Ave., Miami, Fla.
Watson, James W., *M.* 1944
307 E. 44th, New York, N. Y.
WATSON, RICHARD H., assoc. pediat. (*C.M.* 1952); a.r.p. *C.M.* 1953 8 Porter, Melrose
Watson, Robert F., *W.M.* 1936
New York Hosp., New York, N. Y.
Watts, A. B., *E.S.* 1943
103 E. Holly, Bellingham, Wash.
Watts, J. W., II, *N.* 1928 and *N.S.* 1929 1911 R, N.W., Washington, D. C.
Waud, Barbara E., a.r.p. *An.* 1959
1490 Banbury Rd., Oxford, England
WAXMAN, H. S., a.r.p. (*M.* 1963) M. G. H.
WEBB, J. W., admin. a. M. G. H.
WEBER, A. L., a.r.; r.p. *R.* 1959
M. G. H.
WEBSTER, E. W., physicist *R.*
M. G. H.
WEBSTER, H. de F., assoc. n. and a.n.p.; r.p. *N.* 1956 M. G. H.
Webster, R. C., *E.S.* 1943; j.r.s. 1944
1101 Beacon, Brookline
Wedrow, E. M., r.p. *Psychiat.* 1953
479 Beacon
Wegner, K. H., *Path.* 1960; a.r.p. *Path.* 1961 M. G. H.
Weigel, E. W., *Or.* 1928
523 Jersey Ave., Elizabeth, N. J.
Weiler, H. G., *Or.* 1932; r.s. *Or.* 1932
Central Union Bldg., Wheeling, W. Va.
WEINBERG, A. N., a. *M.* (*M.* 1957); r.p. 1962 M. G. H.
Weinberg, R. A., a.r.p. *D.* 1962
18 Valley Rd., Drexel Hill, Pa.
WEINBERGER, J. L., assoc. psychiat.
51 Brattle, Cambridge
Weinfeld, M.S., a.r.s. *Or.* 1961
Children's Med. Center
WEINSTEIN, L., assoc.p.
New Eng. Center Hosp.
Weir, D. R., r.p. *Path.* 1938
Highland View Hosp., Cleveland, Ohio
WEISBERBER, D., c. *Dn. M.* and oral s. 188 Longwood Ave.
WEISER, A., a. *Otolar.*
390 Pine, Fall River
WEISMAN, A. D., assoc. psychiat.; r.p. *Psychiat.* 1945
80 Woodbine Rd., Belmont
WEISS, A. D., a. *N.* M. G. H.
Weiss, L. L., a.r.p. *An.* 1956
1225 N. Madison Ave., Anderson, Ind.
WELCH, C. E., v.s. (*E.S.* 1934); r.s. *E.S.* 1937 M. G. H.
WELD, G. S., *Secretary* and *Asst. Treasurer of the Corporation*
45 Milk
Welles, E. S., *E.S.* 1921
20 Church, Saranac Lake, N. Y.
WELLS, L. D., clin. assoc. *Psychiat.*
82 Marlborough
WENER, L., a. *R.* M. G. H.
Wenig, M., *Dn.* 1945
253-02 Northern Blvd., Little Neck, Long Island, N. Y.
WENLUND, D. E., a.r.s. (*S.* 1962) M. G. H.

WERMER, H., attend. psychiat. (*McL.*) McLean Hosp., Belmont

WERMER, OLGA S., r.p. *Psychiat.* (*McL.*) McLean Hosp., Belmont

Wescott, H. H., *Or.* 1924 Irvington, Va.

WEST, F. J., a.s. *Oph.* 195 Ashmont, Dorchester

West, W. W., *S.* 1948; a.r.s. 1954 2420 N. California, Stockton, Calif.

WEYLMAN, W. T., a. *R.;* r.p. *R.* 1960 M. G. H.

Wheeler, B. C., *E.S.* 1926 27 Elm, Worcester

Wheeler, C. Gene, *S.* 1956; a.r.s. 1962 1008 N. Washington, Dallas, Tex.

Wheeler, Charles A., *N.S.* 1935 and *W.S.* 1938 69 West, Leominster

WHEELER, E. O., assoc. p. Zero Emerson Pl.

Wheeler, J. T., *M.* 1956 Med. Arts Bldg., Dallas, Tex.

Wheeler, R. R., *W.M.* 1922 57 Marmion Way, Rockport

Wheeler, W. E., *C.M.* 1934 Children's Hosp., Columbus, Ohio

WHEELOCK, F. C., Jr., assoc.v.s. (*E.S.* 1943); a.r.s. 1949 1180 Beacon, Brookline

WHISKIN, F. E., a. attend. psychiat. (*McL.*); r.p. *Psychiat.* (*McL.*) 1952; r.p. *Psychiat.* 1954 160 Commonwealth Ave.

WHITE, C. J., hon. p. 259 Marlborough

WHITE, E. M., a. dir. M. G. H.

WHITE, J. C., *Bd. of Cons.* (*W.S.* 1925); r.s. *W.S.* 1927 M. G. H.

White, L. P., *M.* 1950; a.r.p. 1951 Children's Cancer Research Foundation, 35 Binney

WHITE, P. D., hon. p.; cons. cardiol. (*McL.*) (*C.M.* 1911 and *W.M.* 1913); h.p. *W.M.* 1920 264 Beacon

Whitelaw, G. P., *W.S.* 1937 Boston Univ.-Mass. Memorial Hosp. Med. Center

WHITFIELD, T. J., III, a. pediat. (*C.M.* 1954); c.r.p. *C.M.* 1957 Concord Med. Center, Concord

Whitford, W., *Or.* 1931 80 Sherman Ave., New Haven, Conn.

WHITING, R. G., a.p. 226 Marlborough

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Whittemore, J. P., *C.M.* 1946; a.r.p. *C.M.* 1947 2330 N.W. Flanders, Portland, Oreg.

WIEDMAN, M., a. *Oph.* 9 Central, Lowell

Wigglesworth, W. C., *E.S.* 1945 78 County Rd., Ipswich

Wilcox, J. C., *C.M.* 1937 328 N. Indian Hill Blvd., Claremont, Calif.; 146 Nemaha, Pomona, Calif.

Wilcox, R. E., *S.* 1949; a.r.s. 1955 Beckley Memorial Hosp., Beckley, W. Va.

Wilde, H. D., Jr., a.r.s. *Or.* 1962 64 Halsey Ave., Wellesley

WILGRAM, G. F., a. biochem. *D.* 59 Eustis, Arlington

WILKER, S. R., a.s. *Otolar.* 285 Commonwealth Ave.

WILKINS, E. W., Jr., assoc. v.s. (*W.S.* 1945); a.r.s. 1951 Zero Emerson Pl.

WILKINSON, H. A., a.r.s. *N.S.* M. G. H.

Willetts, A. T., a.r.s. *U.* 1942 79 Union Pl., Summit, N. J.

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Williams, Charles A., *E.S.* 1920 Box 246, Woodstock, Vt.

WILLIAMS, CONGER, p. (*W.M.* 1940) M. G. H.

Williams, D. W., *W.S.* 1943; r.s. *Or.* 1946; r.s. *U.* 1948 130 Maple, Springfield

WILLIAMS, G. M., a.r.s. (*S.* 1958) M. G. H.

Williams, Harold W., Jr., a.r.p. *Psychiat.* 1961; r.p. *Psychiat.* (*McL.*) 1962 M. G. H.

WILLIAMS, HIBBARD E., c.r.p. (*M.* 1959) M. G. H.

Williams, O. B., Jr., a.r.p. *An.* 1955 Parkland Memorial Hosp., Dallas, Tex.

Williams, R. C., Jr., *M.* 1955; c.r.p. 1960 Rockefeller Inst. Med. Res., 66th and York Ave., New York, N. Y.

WILLIAMS, V. P., *Bd. of Cons.* (*E.S.* 1931) 330 Dartmouth

Williamson-Lefort, L., *W.M.* 1942 Miguel Cruchaga Tocornal 920, Officina 405, Santiago, Chile

WILLS, A. A., Jr., clin. assoc. *M.* 10 P. O. Sq.

Wilson, Edward H., *S.* 1948; a.r.s. 1950
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WILSON, EMMETT, Jr., r.p. *Psychiat.* (*McL.*)
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Wilson, John C., *Or.* 1917
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Wilson, John C., Jr., *W.S.* 1945; a.r.s. *Or.* 1950
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Wilson, John L., *E.S.* 1940; r.s. 1948
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WILSON, P. D., hon. s. (*E.S.* 1914)
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Wilson, P. D., Jr., *E.S.* 1945; j.r.s. *E.S.* 1946
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WILSON, R. F., clin. assoc. *C.*
113 Locust, Dover, N. H.

Wilson, W. E., sr.r.s. *Or.* 1961
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Wimberger, H. C., r.p. *Psychiat.* (*McL.*) 1959
M. G. H.

WINKLER, G. F., a. *N.*; r.p. *N.* 1961
M. G. H.

Winkler, J. J., a.r.p. *R.* 1928
Austin State Hosp., Austin, Tex.

Winn, W. A., *E.M.* 1934
Springville Hosp., Springville, Calif

Winsor, A. P., *W.M.* 1919 and *W.S.* 1921
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Wirthlin, L. S., *S.*
M. G. H.

Wishard, W. N., Jr., *E.S.* 1927
1711 N. Capitol Ave., Indianapolis, Ind.

WITTENBERG, J., a.r.p. *R.*
M. G. H.

Wohl, H., a.r.p. 1959
Columbia-Presbyterian Med. Center, New York, N. Y.

WOHL, M. J., r.p.
M. G. H.

WOHL, R. H., a.r.s. (*S.* 1960)
M. G. H.

WOLF, I., assoc. psychol.
Boston Univ., 308 Bay State Rd.

Wolff, C. T., *M.* 1958
National Inst. of Health, Bethesda, Md.

Wolff, J., *M.* 1954
National Inst. of Health, Bethesda, Md.

Wolff, L., *W.M.* 1924
1101 Beacon, Brookline

WOLTERBEEK, J. C., r.p. *Psychiat.* (*McL.*)
McLean Hosp., Belmont

Wong, Joyce Kolling, *O.P.D.* r.p. *C.M.* 1960
36 206th, Bayside, Long Island, N. Y.

WONG, L. M. F., a.r.s.
M. G. H.

Woo, Shutai Tinwong, *W.M.* 1920
address unknown

Wood, B. S., *E.S.* 1933
Vet. Adm. Hosp., Salem, Va.

Wood, E. C., *M.* 1951
Inst. of Living, 200 Retreat Ave., Hartford, Conn.

Wood, H. P., *M.* 1948
Lankenau Med. Bldg., Philadelphia, Pa.

Wood, J. Edwin, Jr., *W.M.* 1923; r.p. *E.M.* 1923
Sch. of Med., Univ. of Virginia, Charlottesville, Va.

Wood, James A., *C.M.* 1915
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Wood, W. E., *Dn.* 1940
1832 Connecticut Ave., N. W., Washington, D. C.

Woodbury, H. W., *Dn.* 1948
218 S. Maryland Parkway, Las Vegas, Nev.

WOODRUFF, L. M., a. u. (*E.S.* 1939); r.s. *U.* 1947
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Wooten, E. Jane Herring, a.r.p. *C.M.* 1944
2512 Fairview Rd., Raleigh, N. C.

Worth, T. C., *W.M.* 1938
Rex Hosp., Raleigh, N. C.

Wosnitzer, M., a.r.s. *U.* 1960
Peter Bent Brigham Hosp.

Wright, R. L., sr. r.s. *N.S.* 1963
M. G. H.

Wurtman, R. J., *M.* 1961; a.r.p. 1962
National Inst. of Health, Bethesda, Md.

Wyman, E. T., Jr., sr.r.s. *Or.* 1960
1110 Beacon, Brookline

WYMAN, S. M., r.; j.r.p. *R.* 1942
575 Mount Auburn, Cambridge; M. G. H.

Wyngaarden, J. B., *M.* 1949; r.p. 1951
Duke Univ. Med. Center, Durham, N. C.

Wynne, L. C., r.p. *Psychiat.* 1951
National Inst. of Health, Bethesda, Md.

Wysham, D. N., *M.* 1954; a.r.p. 1957
Christian Med. College,
Ludhiana, Punjab, India
Yaffee, H. S., a.r.p. *D.* 1953
60 Brattle, Cambridge
YAKOVLEV, P. I., cons. *N.P.* (*N.*)
H. M. S.
Yanagisawa, K., *Or.* 1944
216 E. 50th, New York, N. Y.
Yankauer, A., *C.M.* 1941
P.A.H.O.-W.H.O.,
1501 New Hampshire Ave., N.W.,
Washington, D. C.
YATSUHASHI, M., clin. assoc. *S.*
(*W.S.* 1945); a.r.s. 1946
Pondville Hosp., Walpole
Yee, L. P. K., *E.M.* 1939 and *W.S.*
1941; a.r.s. 1946
1641 Nuuanu Ave.,
Honolulu, Hawaii
Yens, O. C., *C.M.* 1930 and *W.M.*
1932 503 Chapman, Canton
Youmans, J. B., *E.M.* 1921
2 E. 103rd, New York, N. Y.
Young, C., *E.S.* 1923
1848 Wilson Ave.,
Salt Lake City, Utah
Young, D. A., *E.M.* 1933; r.p.
Psychiat. 1936; r.p. *Psychiat.*
(*McL.*) 1937
North Carolina Memorial Hosp.,
Chapel Hill, N. C.;
714 St. Mary's, Raleigh, N. C.
YOUNG, E. L., hon. s. (*W.S.* 1910)
1180 Beacon, Brookline
Young, J. G., *C.M.* 1926
4005 St. Andrews Dr.,
Dallas, Tex.
Young, Robert A., r.p. *Psychiat.* (*McL.*)
1934
Judge Baker Guidance Center,
295 Longwood Ave.
YOUNG, ROBERT R., a.r.p. *N.*
M. G. H.
Yount, W. J., *M.* 1961; a.r.p. 1962
Brighton Marine Hosp., Brighton
YU, CHUAN-TAO, a. biochem. *M.*
M. G. H.
YURCHAK, P. M., r.p. (*M.* 1958)
M. G. H.
Zacarian, S. A., r.p. *D.* 1955
130 Maple, Springfield
ZACHARIAS, LEONA, biol. *Oph.*
Mass. E. & E. Inf.
Zacks, S. I., *Path.* 1956; a.r.p. *Path.*
1958 Pennsylvania Hosp.,
Philadelphia, Pa.
ZAMBON, ENES, exec. a. (*S.N.*
1929) M. G. H.
Zamcheck, N., *Path.* 1943
Boston City Hosp.
ZAMECNIK, P. C. M., p. M. G. H.
Zaoussis, A. L., a.r.s. *Or.* 1954
9 Merlin, Athens, Greece
ZARSKY, E. L., a. attend. psychiat.
(*McL.*) 201 Buckminster Rd.,
Brookline
Zartman, H. F., *C.M.* 1954
825 L, Anchorage, Alaska
ZAUDY, ELEONORE C., assoc. pediat.
1247 Beacon, Brookline
ZAWACKI, B. E., a.r.s. (*S.* 1962)
M. G. H.
ZELLER, J. W., clin. assoc. *M.* (*W.M.*
1935); r.p. 1938
Tufts Univ. Sch. of Med.
Zervas, N. T., sr.r.s. *N.S.* 1961
Jefferson Med. Coll. of Philadelphia,
Philadelphia, Pa.
ZETZEL, ELIZABETH R., psychiat.;
psychiat. (*McL.*) 14 Hubbard Pk.,
Cambridge
Zieper, I., a.r.p. *N.* 1958
Lemuel Shattuck Hosp.
ZIMBLER, S., a.r.s. *Or.* M. G. H.
ZINBERG, N. E., assoc. attend.
psychiat. (*McL.*) Beth Israel Hosp.
ZINNINGER, G. F., a.r.p. *R.*
M. G. H.
ZISKIND, A., a. *Pediat.* M. G. H.
Zmyslowski, W. P., a.r.p. *An.* 1959
28 Marion Ave., Worcester
ZOLA, I. K., a. sociol. *Psychiat.*
M. G. H.
ZONDERMAN, B., assoc. s. *Otolar.*
285 Commonwealth Ave.
Zuelzer, W. W., *C.M.* 1937
Children's Hosp., Detroit, Mich.
Zuidema, G. D., *S.* 1954; r.s. 1959
University Hosp.,
Ann Arbor, Mich.
Zukowski, H. J., a.r.p. *An.* 1948
Grace Hosp., Detroit, Mich.
ZWERDLING, M. A., a.r.p. *C.* (*C.*
1963) M. G. H.

Directory of Hospital Staff, Alumni, and past Residents, by States and Cities

ALABAMA

Birmingham
Edwards, W. S.
Hall, H. D.
Kennedy, B. H.
Lyons, C.
Perley, A. I.
Pittman, J. A., Jr.
Powell, S. M., Jr.
Shannon, P. W.

ALASKA

Anchorage
Zartman, H. F.

ARIZONA

Fort Defiance
Organick, A. B.
Phoenix
Bendheim, O. L.
Foster, F. D.
Ottenheimer, E. J.
Sussman, M. L.
San Manuel
Findlay, F. M.
Tucson
Havemeyer, W. F.
Omer, J. A.
van Ravenswaay, A. C.

ARKANSAS

Little Rock
Diner, W. C.
Thompson, S. B.

CALIFORNIA

Belvedere
Merrill, B. R.
Berkeley
Bennett, C. B.
Cheney, M. C.
Perkins, W. A.
Richards, D. N.
Richards, D. N., Jr.
Beverly Hills
Ilfeld, F. W.
Mathews, S. S.
Putnam, T. J.
Blue Lake
Kerr, W. J.
Carmel Valley
Tileston, W.
Claremont
Wilcox, J. C.
Corona
Schnack, A. G. C.
Downey
Stiles, C. M.
Stiles, Q. R.
Fontana
Papazian, C. E.
Fresno
Tan, C.-C.
Kentfield
Manson, E. S.
La Jolla
Legge, R. F.
Long Beach
Ellery, S. W.
Meister, L.
Los Angeles
Ayres, S., Jr.
Billig, H. E., Jr.
Boyes, J. H.
Cannon, J. A.
Chaffin, G. L.
Cozen, L.
Craddock, C. G., Jr.
Dole, K. L.
Golden, R.
Langer, G. A.
Lawrence, J. S.
McKeever, F. M.
Mason, E. D.
Mills, L., Jr.
Moyer, D. LaR.
Mudd, S. G.
Pearson, C. M.
Rose, A. S.
Scholl, A. J.
Sheldon, D. B.
Snyder, W. H., Jr.
Solomon, J.
Urist, M. R.
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Wilson, J. C., Jr.
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Veldee, M. V.
Monterey
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Arthur, R. J.
Chapman, C. E.
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Leeper, R. W.
McNie, A. B.
Nesche, G. E.
Orski, B. M.
Schoen, E. J.
Splithoff, C. A.
Thomas, R. L.
Ojai
Atsatt, R. F.
Palo Alto
Bunker, J. P.
Coggins, C. H.
Cohn, R. B.
Hawkins, R.
Kosek, M. S.
Maruyama, Y.
Newell, J. W.
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Cosby, R. S.
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Pebble Beach
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San Diego
Foley, T. M.
Garrity, R. W.
Legge, R. F.
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Bengle, A. L., Jr.
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Bull, E. C.
Cline, J. W., Jr.
Dillon, V. M.
Dresel, R. L.
Finlayson, N. B.
Finley, K. H.
Freeman, N. E.
Hand, D. W.
Harrison, M. B.
Hartwig, A. R.
Haswell, H. P.
Jackanich, R. F.
Jergesen, F. H.
Levy, S. W
Makel, H. P.
Mellinger, G. W.
Moffitt, H. C., Jr.
Montgomery, O. F.
Nelson, C.
Noble, C. A., Jr.
O'Sullivan, R. B.
Perry, J. W.
Pillsbury, P. L.
Quinn, T. J., Jr.
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Roe, B. B.
Rosenman, L. D.
Rowe, J. C.
Rukes, J. M.
Ryan, K. G.
Sampson, J. J.
Sams, B. J., Jr.
Shaw, E. B.
Smith, C. E.
Starke, R. D.
Uyeda, C. I.
Wilson, E. H.,
San Jose
Ahnlund, N. W.
McCort, J. J.
San Mateo
Campbell, C. R.
Hills, O. W.
Key, W. A.
Morrison, G. M.
Prindle, K. H.
Ratcliffe, J. W.
San Rafael
Burke, M. F.
Cecil, L. M.
Santa Barbara
Luikart, R. H., II

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Robertson, O. H.
South Laguna
Byrnes, R. L.
Springville
Winn, W. A.
Stockton
Barth, T. A.
West, W. W.
Truckee
Pier, G.
Tulare
Vitt, R. J.
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Mead, S.
Ventura
James, W. J.
Walnut Creek
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Donald, J. H.
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Brown, R. K.
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Claman, H. N.
Cunningham, T. D.
Elrick, H. E.
Franz, E. M.
Hermann, G.
Higbee, D. R.
Hughes, H. C.
Jobe, M. C.
Leidholt, J. D.
Lingenfelter, G. P.
MacMillan, H. A., Jr.
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Meader, C. N.
Middlebrook, G.
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Packard, G. B.
Parker, G. D.
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Harrison, T. S.
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Hunt, S. P.
Johnson, F. G.
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O'Connor, D. S.
Rogers, O. F.
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Gens, J. P.
Norwich
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Stratford
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Thomas, H. M., Jr.
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Alpers, D. H.
Barrett, P. Van D.
Black, P. H.
Brindley, C. O.
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Brown, R. H.
Butler, W. T.
Davidoff, F. F.
Drachman, D. A.
Engelman, K.
Garren, L.
Goldberg, A. H.
Goldfinger, S. E.
Hofer, M. A.
Holtz, A. I.
Korn, D.
Lang, D. J.
Laster, L.
Lees, R. S.
Lotz, M.

Mudd, S. H.
O'Brien, W. M.
Potts, J. T.
Rose, J. A.
Rosenberg, I. H.
Sarnoff, S. J.
Sell, S.
Talamo, R. C.
Turner, J. D.
Vagelos, P. R.
Waldmann, T. A.
Wolff, C. T.
Wolff, J.
Wurtman, R. J.
Wynne, L. C.

Chevy Chase
Varney, H. I.

Easton
Stoddard, J. K.

Hagerstown
Greene, D. C.

Silver Spring
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Blunden-Morris, D. E.

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de Marneffe, F. L. A.
Dinsmore, P. R.
Duda, G. A.
Eldred, S. H.
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Fischberg, B. W.
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Grunebaum, H. U.
Hallenbeck, D. F., Jr.
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Harvey, H. H.
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Haycox, J. A.
Hermann, H. T.
Hess, H. H.
Howard, P. M.
Jenney, P. B.
Kahne, M. J.
Kershaw, B. R.
Kuldau, J. M.
Langevin, H. J.
LeBaron, F. N.
Longabaugh, R. H.
Melbin, M.
Mokrasch, L. C.
Mueller, H. P.
Nalebuff, E. A.
Parsons, A.
Pasho, W. F.
Pierce, I. R.
Pope, A.
Rapoport, R. N.
Robertson, J. D.
Robinson, P. M.
Schnitzer, R. D.
Seeley, C. B.
Sherman, L. J.
Stanton, A. H.
Stoffyn, A. M.
Stoffyn, P. J. J.
Stone, A. A.
Walter, M. M., Jr.
Washburn, S. L.
Weisman, A. D.
Wermer, H.

Beverly
Alt, R. E.
Fienberg, R.
MacDonald, A. S., Jr.
Parkhurst, A. E.
Risley, T. S.
Scott, D. H.
Todd, B. P.

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Ackerman, I. P.
Adams, F. D.
Adams, H. D.
Adams, J., Jr.
Adams, R. D.
Agard, E. T.
Aisenberg, A. C.
Albright, F.
Allen, D. W.
Allen, H. F.
Ames, A., III
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Arnason, B. G. W.
Aronow, S.
Aronson, J. A.
Aster, R. H.
Atkins, L.
Aub, J. C.
Aufranc, O. E.
Austen, K. F.
Austen, W. G.
Austin, R. C.
Bacon, J. F.
Baden, H. P.
Badger, T. L.
Baker, D. V., Jr.
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Baker, W. H.
Balazs, E. A.
Balboni, G. M.
Balboni, V. G.
Ballantine, H. T., Jr.
Balogh, K.
Bandler, B.
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Banks, H. H.
Barlow, J. S.
Barnes, B. A.
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Battat, F. A.
Battit, G. E.
Bauer, W.
Beck, W. S.
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Beetham, W. P.
Behringer, G. E.
Bell, E.
Bell, G. O.
Bellinger, M. J.
Bendixen, H. H.
Benedict, E. B.
Benedict, P. H.
Berenberg, W.
Bernstein, N. R.
Bigelow, F. S.
Binger, C. A. L.
Bird, K. T.
Bland, E. F.
Blane, H. T.
Blank, I. H.
Bloch, K. J.
Bornstein, D. L.
Boruchoff, S. A.
Brady, F. W.
Bragg, R. L.
Bratt, H. A.
Brendler, S. J.
Brendze, R. B.
Brewster, H. H.
Brockhurst, R. J.
Broderick, T. F., Jr.
Brown, T.
Brownell, G. L.
Bucher, N. L. R.
Bullivant, S.
Burbank, C. B.
Burke, J. F.
Burnett, J. B.
Burrage, W. S.
Burwell, C. S.
Bush, R. D.
Byers, R. K.
Calnan, A. F.
Caner, G. C.
Cannon, B.
Caplan, G.
Caplan, L. M.
Carey, R. W.
Carnes, H. A.
Carney, H. J.
Carter, E. L.
Carter, G. H.
Cass, J. W., Jr.
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Castle, W. B.
Castleman, B.
Caulfield, J. B.
Cavanaugh, T.
Cave, E. F.
Chafetz, M. E.
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Chisholm, J. F., Jr.
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Clay, C. L.
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Clough, J. M.

Cobb, S.
Cochran, W. D.
Cogan, D. G.
Cohen, J.
Cohen, M. E.
Cohen, R. B.
Cole, E. M.
Coles, M. R.
Comb, D. G.
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Constable, J. D.
Cook, C. D.
Coons, A. H.
Cooperman, S.
Cope, O.
Covitz, E. E.
Crawford, J. D.
Crone, N. L.
Cronkhite, L. W., Jr.
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Currens, J. H.
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Damon, A.
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Darrow, R. A.
d' Autremont, C. C.
Davidson, G. E.
Davies, J. A. V.
DeBlois, E.
Degen, J. W.
DeGroot, L. J.
DeLorme, T. L.
d'Elseaux, F. C.
Dempsey, P. A.
De Sanctis, R. W.
DeWilde, H.
Deykin, D.
Diamond, L. K.
Dienes, L.
Dinsmore, R. E.
Dodge, P. R.
Donaldson, D. D.
Donaldson, G. A.
Dreyfus, P. M.
Dreyfuss, J. R.
Drooker, J. C.
Drorbaugh, J. E.
Duhl, F. J.
Dwight, R. W.
Dykes, M. H. M.
Eaton, R. G.
Ebisuzaki, K.
Edsall, R. W.
Egbert, L. D.
Eger, W. H.
Eldredge, J. H.
Ellett, W. H.
Ellis, D. S.
Ellis, L. B.
Embree, L. J.
Endee, C. H.
Engel, L. L.
England, A. C., Jr.
Ervin, F. R.
Essig, A.
Farmer, D. A.
Fawcett, D. W.
Faxon, H. H.
Fay, J. H.
Federman, D. D.
Fern, D. J.
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Field, R. A.
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Hamlin, H.
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Hashimoto, K.
Hatch, F. T.
Hawes, L. E.
Hayden, E. P.
Hayden, W. L.
Head, J. M.
Hedberg, S. E.
Hedley-Whyte, J.
Hendren, W. H.
Hendrick, I.
Herbst, A. L.
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Hill, L. W.
Hill, W. R.
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Hoffer, A.
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Howe, L. P.
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Jones, R. H.
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Joseph, A. T.
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Kalckar, H. M.
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Kane, L. W.
Kantor, M.
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Kashket, S.
Katz, S. L.
Kazanjian, K. A.
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Kearsley, R. B.
Keenan, T. J.
Kelemen, G.
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Kelley, R. M.
Kelley, S. B.
Kelly, J. F.
Kelly, L. T.
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Knapp, P. H.
Knowles, J. H.
Koch-Weser, J.
Kozol, H. L.
Krane, S. M.
Kranes, A.
Kravitz, A. R.
Krayer, O.

Kubik, C. S.
Kubzansky, P. E.
Kuhns, J. G.
Kulka, J. P.
Kunz, L. J.
Kupfer, C.
Kuwabara, T.
Kvaraceus, W. C.
Kwass, G. F.
Lamborg, M. R.
Lamdin, S. J.
Lamkins, B. E.
Lamont, J. H.
Laver, M. B.
Lawrence, G. W.
Leadbetter, G. W., Jr.
Leadbetter, W. F.
Leaf, A.
Leeman, C. P.
Leiderman, P. H.
Lele, P. P.
Lentine, J.
Lerman, J.
Leskowitz, S.
Levene, M. B.
Leventhal, B. G.
Lever, W. F.
Levine, H. J.
Levitan, J. J.
Lewis, D. K.
Lewis, J. L., Jr.
Lezer, L. R.
Liebman, S. D.
Lincoln, R. C.
Lindemann, E.
Little, J. B.
Littlefield, J. W.
Littmann, D.
Lloyd, J. B.
Lofgren, R. H.
Loftfield, R. B.
Lombroso, C. T.
Lorch, S.
Lorenz, M.
Lowell, F. C.
Lowell, J. D.
Lowis, S.
Ludwig, A. O.
Lund, C. C.
Luongo, M. A.
Mabrey, R. E.
McAlpine, F. S.
McArthur, J. W.
MacAusland, A. R.
MacAusland, W. R., Jr.
Mack, J. E.
McCully, K. S.
McDermott, W. V., Jr.
McGinn, S.
McGovern, J. J. M.
Mackay, M.
McKeigue, J. E.
MacLeod, G. K.
McMeel, J. W.
Macmillan, A. S., Jr.
McNeely, W. F.
McNeill, J. M.
McPeek, B.
McPhedran, A. M.
Maloof, F.
Malt, R. A.
Mangiaracine, A. B.
Mann, W.
Marble, A.
Marble, H. C.
Marcus, S. M.
Mark, V. H.
Martin, D. B.
Mattos, E. R.
Mayer, R. F.
Maynard, E. P., III
Mayo, C. W.
Mayo, R. A.
Means, J. H.
Meigs, J. V.
Mello, N. K.
Mendelson, J. H.
Messner, E.
Michelsen, J. J.
Miller, D.
Mills, J. A.
Miner, L. M. S.
Miner, R. L.
Ming, S. C.
Mittel, N. S.
Mixter, C. G., Jr.
Montgomery, W. W.
Moore, F. D.
Moreton, J. R.
Morgan, C. L.
Morrison, H. R.
Moser, H. W.
Mosher, H. A.
Mueller, B. C.
Mueller, E. H. J.
Mueller, H. L.
Murphy, H. J.
Murphy, W. F.
Murray, J. E.
Mushatt, C.
Myers, G. S.
Nadas, A. S.
Nardi, G. L.
Nathan, L.
Nemiah, J. C.
Neuhauser, E. B. D.
Neumann, E. T.
New, P. F. J.
Nikaido, H.
Norcross, J. W.
Noss, G. M.
Nyilas, E.
O'Brien, R. G.
O'Connor, H.
Ojemann, R. G.
Okamura, I. D.
Olin, H. S.
Olin, M. J.
Olive, G. M., Jr.
Page, L. B.
Palmer, R. S.
Paparella, M. M.
Parkhurst, E. C.
Parsons, L.
Pathak, M. A.
Pavlo, I. L.
Pechet, M. M.
Peebles, R. R.
Pendergrass, H. P.
Perlo, V. P.
Perry, J. A.
Phillips, E. B., II
Picard, E. H.
Pier, A. S., Jr.
Pierce, D. L.
Pittman, H. S.
Point, W. W.
Pollen, A.
Pontoppidan, H.
Porter, H.
Porter, P. J.
Poskanzer, D. C.
Potsaid, M. S.
Poulin, F. K.
Pratt, T. C.
Prensky, A. L.
Pryles, C. V.
Putschar, W. G. J.
Quarton, G. C.
Quinby, J. T.
Quinby, W. C., Jr.
Rabe, E. F.
Rabkin, M. T.
Rackemann, F. M.
Raker, J. W.
Randolph, J. G.
Rapin, A. M. C.
Record, E. E.
Reed, G. F.
Regan, C. D. J.
Reid, D. E.
Reiser, D. E.
Reith, H. C.
Reyersbach, G. C.
Rice, J. O.
Richardson, E. P.
Richardson, G. S.
Richardson, J. R.
Rieder, S. V.
Riemer, K.
Robbins, L. L.
Robertson, C. W.
Robinson, D. R.
Rockwood, E. M.
Rodkey, G. V.
Roopenian, A.
Ropes, M. W.
Rosen, V. J., Jr.
Rosenberg, E. H.
Rosenblith, J. F.
Rosenthal, P.
Roth, S. I.
Rourke, J. A.
Rowe, C. R.
Runge, P. M.
Russell, P. S.
Rutstein, D. D.
St. Goar, W. T.
Salzman, E. W.
Sanchez, G. C.
Sanders, C. A.
Sandler, A. I.
Sasahara, A. A.
Scannell, J. G.
Schapiro, R. H.
Schepens, C. L.
Scheuplein, R.
Scholl, M. L.
Schuknecht, H. F.
Schulz, M. D.
Schuster, S. R.
Schwab, R. S.
Schwitzgebel, R.
Scott, A. W.
Scott, J. F.
Scully, R. E.
Seale, E. S.
Sears, J. B.
Seigne, T. D.
Selverstone, B.
Semrad, E. V.
Senior, B.
Shangraw, K. A.
Shattuck, G. C.
Shaw, R. S.
Shawdon, H. H.
Shea, F. P.
Shealy, C. N.
Sheldon, C. P.
Shore, S.
Short, C. L.

Sidman, M.
Sidman, R. L.
Sifneos, P. E.
Simmons, R. J.
Simon, H.
Sinesi, S. J.
Sisson, J. H.
Sisson, W. R.
Skinner, J. C.
Slater, E. M.
Sloane, A. E.
Smith, C. A.
Smith, G. G.
Smith, L. H., Jr.
Smith, R. H.
Smith, R. M.
Smith, T. R.
Smith-Petersen, M.
Smithwick, R. H.
Sneddon, E. A.
Snider, M.
Sniffen, R. C.
Snow, J. C.
Snyder, J. C.
Sohier, W. D., Jr.
Solomon, H. C.
Soloway, A. H.
Sosman, J. L.
Soutter, L.
Spear, L. M.
Speare, G. S.
Spencer, K.
Spiro, M. J.
Squires, H. J.
Stanbury, J. B.
Stauffer, R. E.
Stempien, J. H.
Stephenson, M. L.
Stetson, J. B.
Stetson, R. P.
Stoddard, L. T.
Stoeckle, J. D.
Stone, W., Jr.
Stratton, K.
Strauss, F.
Sturdevant, C. L.
Sturgis, S. H.
Suby, H. I.
Sullivan, G. L.
Swan, C. L., Jr.
Swartz, J. H.
Swartz, M. N.
Sweet, W. H.
Szabó, G.
Taft, E. B.
Taft, P. D.
Talbot, N. B.
Talland, G. A.
Tandon, R.
Taylor, J. H.
Tenney, B., Jr.
Thomas, J. M.
Timberlake, W. H.
Todd, D. P.
Tolman, M. M.
Tomchik, F. S.
Trapp, C. E.
Trevett, L. D.
Trieger, N.
Tucker, W. I.
Ulfelder, H.
van Amerongen, S. T.
Van Buskirk, D.
Vance, L. A.
Vance, R. G.
Vanderveen, J. L.
Vickery, A. L., Jr.
Villee, D. B.
von Felsinger, J. M.
Waksman, B. H.
Walzer, S. G.
Wang, C.-A.
Wang, C.-C.
Warner, F. A.
Warren, R.
Watkins, A. L.
Watson, B. K.
Weber, A. L.
Webster, E. W.
Webster, H. de F.
Wedrow, E. M.
Wegner, K. H.
Weinberg, A. N.
Weinfeld, M. S.
Weinstein, L.
Weisberger, D.
Weiss, A. D.
Welch, C. E.
Wells, L. D.
Wener, L.
West, F. J.
Weylman, W. T.
Wheeler, E. O.
Whiskin, F. E.
White, C. J.
White, E. M.
White, J. C.
White, L. P.
White, P. D.
Whitelaw, G. P.
Whiting, R. G.
Wilker, S. R.
Wilkins, E. W., Jr.
Williams, C.
Williams, H. W., Jr.
Williams, V. P.
Wills, A. A., Jr.
Wimberger, H. C.
Winkler, G. F.
Wolf, I.
Wosnitzer, M.
Wright, R. L.
Wyman, S. M.
Yakovlev, P. I.
Young, R. A.
Yount, W. J.
Yu, C.-T.
Zacharias, L.
Zamcheck, N.
Zamecnik, P. C. M.
Zeller, J. W.
Zervas, N. T.
Zieper, I.
Zinberg, N. E.
Ziskind, A.
Zola, I. K.
Zonderman, B.

Braintree
Slemons, M. L.

Brockton
Chase, J. S.
Dickersin, G. R.
Duncombe, A. L.
Rae, D. B.

Brookline
Alpert, D. R.
Balch, F. G., Jr.
Barker, R. H.
Barnum, F. G., Jr.
Beck, K. S.
Beuscher, R. B.
Boutwell, H. K.
Braconier, H. E.
Brailey, A. G.
Burgin, L. B.
Carter, L. P.
Chalpin, G.
Cline, H. S.
Cohen, A.
Colby, F. H.
Crabtree, H. H.
Darling, R. C.
Derow, H. A.
Dyer, E. C.
Easton, M. T.
Fay, G. F.
Finesinger, A. L.
Franseen, C. C.
Frazee, J. R.
Gauld, A. G.
Godley, A. F.
Goldthwait, J. C.
Gregg, W. I.
Grover, J. W.
Hall, F. C.
Helman, M. E.
Hodgson, J. S.
Holland, D. J., Jr.
Homans, J., Jr.
Hormell, R. S.
Hurwitz, J. J.
Joplin, R. J.
King, H. S.
Kirkwood, S. B.
Kornfeld, W.
Lee, R. I.
Linenthal, A. J.
Linton, R. R.
McKittrick, J. B.
McKittrick, L. S.
Magraw, C. E.
Mixter, C. G.
Modell, A. H.
Morse, G. W.
Muirhead, D. M., Jr.
Nalebuff, E. A.
Newell, J. L.
Okun, M. R.
Potter, M. G.
Prather, G. C.
Rhodes, F. I.
Riley, A.
Rock, J.
Sack, T.
Schatzki, R.
Shea, C. J.
Silverman, S.
Siscoe, D. L.
Smith, J. A.
Smith, W. D.
Spalding, R.
Spangler, A. S.
Spellman, J. W.
Sprague, H. B.
Stalvey, H. D.
Stone, B. H.
Sturgis, G. P.
Talbot, F. B.
Thoma, K. H.
Tilley, R. F.
Trakas, J. C.
Viets, H. R.
Webster, R. C.
Wheelock, F. C., Jr.
Winsor, A. P.
Wolff, L.
Woodruff, L. M.
Wyman, E. T., Jr.
Young, E. L.

Zarsky, E. L.
Zaudy, E. C.

Bryantville
Angley, J. C.

Cambridge
Binstock, W. A.
Bock, A. V.
Brazelton, T. B.
Caplan, G.
Carter, F.
Christ, J.
Cohen, M.
Coolidge, J. C.
Dawes, D. C.
Decker, B. L.
Deutsch, H.
Dexter, C. J.
Evans, R. D.
Farnsworth, D. L.
Floyd, C.
Forbes, A.
Frank, T.
Gates, P. H.
Ginandes, S. C.
Hansen, R. J.
Hardy, H. L.
Hill, J. P.
Hubbard, E., Jr.
Kennedy, D. A.
Matz, M. H.
Means, P. H.
Miller, A. E.
Neumann, C. G.
Postel, S.
Reid, E. A.
Richie, R. H., Jr.
Robey, J. S.
Ross, R. A.
Rudy, H. A.
Russfield, A. B.
Scatchard, G.
Sharpe, W., Jr.
Shelton, W. R.
Temby, W. D.
Toll, K. van S.
Townsend, J. H.
Trump, J. G.
Wadsworth, G. P.
Weinberger, J. L.
Wyman, S. M.
Yaffee, H. S.
Zetzel, E. R.

Canton
Yens, O. C.

Chestnut Hill
Barlow, J. J.
Brigham, F. G.
Daniels, E. M.
Daniels, H. S.
Thorndike, A.

Cohasset
Beaman, G. B.
Sceery, R. T.

Concord
Austin, R. C.
Fay, G. F.
Hitchcock, J.
Keevil, C. S., Jr.
Keuper, C. S.
McDonald, F. C.
Norton, P. L.
Ruboy, J. S.
Whitfield, T. J., III

Danvers
Essember, L. J.
Fearer, N. H.
Thornton, C. E.

Danversport
Breed, F. B.

Dedham
Chapman, R. B.
Osborne, R. K.
Putnam, H. M.
Sweetnam, G. H.

Dover
Santoro, B. T.

Duxbury
Fowler, D. M.

East Falmouth
Steel, D.

Edgartown, Martha's Vineyard
Mazer, M.

Everett
McLaughlin, C. H.

Fall River
Atwood, W. G.
Hawes, C. H.
Hill, N. P.
Mason, W.
Ragsdale, L. V.
Smedley, L. M.
Spencer, J.
Weiser, A.

Falmouth
Bixby, H. I.

Fitchburg
Pick, W.
Walker, G. M.
Williams, A. H.

Foxboro
Putnam, J. J.

Framingham
Albert, J.
Ash, H. L.
Golden, T. S.
Hirsch, L. S.
Senghas, R. E.
Sleeper, E. L.

Gardner
McPeak, C. N.

Greenfield
Buchanan, W. R., Jr.
McClelland, W. K.
Moran, J. E.

Groton
Swaim, L. T.

Hadley
Huntington, J. L.

Hingham
Eldredge, L. L., Jr.
Emerson, G. F.

Holyoke
Bagg, E. P., Jr.
Bandeian, A. M.
Ferguson, E. L.
Mahoney, S. A., Jr.

Hopkinton
Denton, J. E.

Hyannis
Ciccarelli, E. C.
Garran, F. W., Jr.
O'Malley, A. F.

Ipswich
Petranek, J. R.
Wigglesworth, W. C.

Lawrence
D'Urso, J. J.
Ganem, E. J.
O'Shea, J. A.

Leominster
Wheeler, C. A.

Lexington
Bellinger, M. J.
Cosgrove, W. L.
Petersen, J. A.

Longmeadow
Huston, L. L.
Plotkin, L. H.

Lowell
Gehring, J. R.
Grant, G. J. M.
Lawlor, R. C.
Leahey, B. D.
Letsou, V. G.
Wiedman, M.

Lynn
Gibbs, R. F.
O'Keefe, E. S.
Sarris, S. P.
Swartz, M.

Lynnfield
Newhall, H. F.

Malden
Bennett, D. R.
Bennett, W.
Garrey, W. E.
Thorp, E. G.

Manchester
Burnett, F. L.

Marblehead
Hopkins, S. W.
Verhoeff, F. H.

Medford
Guthrie, A. D., Jr.
Heath, C. W.
Morrissey, A. M.

Melrose
Glines, G. A.
Hormell, R. S.
Jako, G.
Watson, R. H.

Milton
Ayer, J. B.
Dickson, W. A.
Gamble, C. J.
Hepburn, J. P.
Hurst, A. L.
McGrath, E. F.
O'Keeffe, A. F.
Sullivan, E. R.
Toch, R.
Tudor, F.
Van Dyke, W.

Natick
Cavanaugh, J. J. A.
Hanelin, J.

Needham
Hazard, S. W.
Vanderpol, M.

New Bedford
Hoffman, H. A.
Lewis, E. O.
Maynard, G. B., Jr.
Tripp, C. C.
Whitney, J. B.

Newburyport
Bullard, C. W.
Hamilton, R. DeL.

Newton
Adler, M. H.
Kenner, G.

Newton Centre
Bonner, F. J.
Chasen, M. C.
Derow, S.
Franklin, W.
Gill, B. F.

Kennard, H. E.
Offenbach, B.
Rutherford, R. W.
Newton Highlands
Kaplan, S.
Newtonville
Garcelon, G. G.
Northampton
Averill, J. H.
Tatlock, H.
North Andover
Rogers, H.
Wallwork, D. W.
Norwell
Bailey, D. W.
Norwood
Booth, N. A.
Fishman, N.
Sternstein, H. J.
Peabody
Lurie, A. S.
O'Rourke, H. J.
Osgood, H. A.
Pittsfield
Miller, J. P., Jr.
Tracy, R. J.
Plymouth
Haggart, G. E.
Hamilton, H. H.
Pocasset
Sanborn, F.
Prides Crossing
Risley, E. H.
Quincy
Ciano, J. F.
McCarthy, P. L.
Randolph
Moore, R. F.
Reading
McMahon, A. W.
Rockport
Sanders, M. B.
Wheeler, R. R.
Rutland Heights
Clifford, M. H.
Salem
Clark, D. S.
Flynn, J. G.
LeDonne, J. E.
Lowd, H. M., Jr.
Phippen, W. G.
Polansky, S. C.
Shannon, J. M.
Stebbins, H. D.
Thompson, R. H.
Somerville
Pollard, J. T., Jr.
South Duxbury
Shirley, J. N.
South Hamilton
Bacon, W. B.
South Sudbury
Adelson, W. J.
South Weymouth
Kilfoyle, R. M.
Rounds, C. E.
Springfield
Carson, P. C.
Derby, J. P.
Derrick, C. C.
Edgelow, A. F. G.
Franseen, E. F.
Gibson, G. C.
Hayes, D. R.
Hopkins, F. S.
Hoyt, W. F.
Lewis, J.
Williams, D. W.
Zacarian, S. A.
Stockbridge
Kimberly, C. H.
Swampscott
Mayo, F. B.
Miller, C. C.
Truro
Hoeffel, G. N.
Vineyard Haven,
Martha's Vineyard
Butler, A. M.
Wakefield
Fiascone, A. D.
Rosenthal, M. K.
Walpole
Yatsuhashi, M.
Waltham
Edelstein, L. M.
Hardy, I. B.
Herm, R. J.
Holmes, J. A.
Lewis, J. L.
Wareham
Lincoln, J. R.
Waverley
For names formerly in
Waverley, *see* Belmont
Wellesley
Flanagan, N. B.
Klein, D. C.
Kraus, P. S.
Pfeffer, W., Jr.
Temby, W. D.
Wilde, H. D., Jr.
Wellesley Hills
Angelini, H. D.
Brenner, J. H.
Freese, C. G., Jr.
Gray, B. C.
Guralnick, W. C.
Lingeman, B. S.
Parker, J. S.
Pippitt, R. B.
Reidy, J. A.
Rosenberg, E. H.
Sanders, R. W.
Stempien, J. H.
Wenham
Rogers, D. M.
West Falmouth
Faxon, N. W.
West Newton
Berezin, M. A.
Van Gorder, G. W.
Weston
Peebles, T. C.
Rogers, W. P., Jr.
Swan, C. S.
Taylor, G. W.
Van Nüys, F.
Westwood
Bunker, S. M.
Curwen, W. L.
Taylor, J. B.
Williamstown
Reynolds, G. S.
Urmy, T. V.
Winchester
Annino, D. J.
Clark, R. J.
Haley, W. D.
Kaufmann, G. G.
Kermond, W. L.
McKenzie, W. L.
McLean, J. D.
Madden, E. J.
Marks, G. A.
Tingey, W. H., Jr.
Worcester
Buckley, F. M.
Burrow, J. G.
Carmody, J. T. B.
Damiani, C. R.
Duggan, J. A.
Freymann, J. G.
Harper, R. S.
Johnson, V. S.
Lingley, J. R.
Miller, E. C.
Oakley, J. C.
Reagan, D. J.
Sniffen, R. C.
Starobin, O. E.
Stone, B. B.
Wheeler, B. C.
Zmyslowski, W. P.

MICHIGAN
Ann Arbor
Bishop, R. C.
Coller, F. A.
Miller, J. G.
Smillie, J. W.
Sweet, R. B.
Vial, A. B.
Waldron, A. M.
Zuidema, G. D.
Birmingham
Esslinger, J. O.
Leach, C. A., Jr.
Detroit
Arnstein, A. R.
Blodgett, W. H.
Comly, H. H.
Eyler, W. R.
Frame, B.
Halsted, J. A.
Mitchell, D. C.
Osius, E. A.
Prus, A. M.
Rosen, R. B.
Smith, W. P.
Sphire, R. D.
Stiefel, D. M.
Sweeny, D. N., Jr.
Zuelzer, W. W.
Zukowski, H. J.
Grand Rapids
Beeman, C. B.
Capps, S. C.
Faust, L. W.
Sugiyama, T.
Ionia
Tannheimer, J. F.
Iron Mountain
Alexander, W. H.
Jackson
Munro, N. D.
Lincoln Park
Russell, H. N., Jr.
Pontiac
Cudney, E. B.

MINNESOTA
Minneapolis
Amick, A. F.
Florence, D. W.
Goetz, F. C.
Johnson, N. P.

Kennedy, B. J.
Peterson, H. O.
Pohl, J. F.
Rodgers, R. S.
Wang, Y.
Rochester
Haines, S. F.
Helmholz, H. F., Jr.
Randall, R. V.
St. Paul
Schwyzer, M.

MISSISSIPPI
Jackson
Guyton, A. C.

MISSOURI
Clayton
Funsch, R. E.
Columbia
Baue, A. E.
van Ravenswaay, T.
Kansas City
Dann, D. S.
Dennie, C. C.
Lilly, T. E., Jr.
Pickard, N. S.
Trowbridge, E. H., Jr.
St. Joseph
McDaniel, J. R.
Riddell, R. V.
St. Louis
Chaplin, H., Jr.
Clark, S. L., Jr.
Dodd, R. B.
Doisy, E. A., Jr.
Drake, T. G.
Funsch, R. E.
Hanser, T. H.
Hershey, F. B.
Josse, J. W.
Lytton, W. B.
Maughs, S. B.
Mayman, C. I.
Moore, S.
O'Brien, R. M.
Robins, E.
Stephens, W. A.
Strauss, A. E.
Trenton
Fuson, W. A.
Webster Groves
Gaunt, F. P.

NEBRASKA
Aurora
Steenburg, D. B.
Omaha
Bisgard, J. D.
Bresnahan, J. F.
Luikart, R. H.

NEVADA
Las Vegas
Woodbury, H. W.
Reno
Cantlon, E. L.
Cantlon, J. V.
Musgrave, R. U.

NEW HAMPSHIRE
Concord
Mintz, E. R.
Dover
Wilson, R. F.
Exeter
Curtin, R. R.
Heyl, J. T.
Hancock
Eustis, R. S.
Hanover
Anthonisen, M. R.
Goodale, F., Jr.
Gundersen, S. M.
Heyl, H. L.
Hunter, R. W.
King, D. S.
McKenna, J. B.
Staples, O. S., Jr.
Sycamore, L. K.
Tisdale, W. A.
Jaffrey Center
Millard, D. G.
Keene
Lacey, W. H.
Laconia
Baker, W. J.
Manchester
Bienvenu, L. J.
Colokathis, P.
Kalil, T. H.
McGahey, C. E.
Walker, J. K.
Orford
Hall, M. G.
Peterborough
Bowditch, H.
Portsmouth
Lium, R.
Wilton
Locke, E. A.
Wolfeboro
Adams, R. H.
Gregory, H. E.

NEW JERSEY
Boonton
Ward, A. J.
Eatontown
Judd, A. B.
Elizabeth
Gorman, R. V.
Weigel, E. W.
Englewood
Roberts, C. D.
Glen Ridge
D'Alessandro, G. L.
Madison
Diehl, S. D.
Monmouth
Los, E.
Montclair
Greene, R. G.
Newark
Greene, R. W.
Schaaf, R. S.
New Brunswick
Kuhn, W. G., Jr.
North Long Branch
Gorrell, J. E.
Orange
Stearns, T.
Paterson
Sporer, E. S.
Van Eerde, A.
Princeton
Dalrymple, W.
Munro, J.
Rothberg, H. D., Jr.
Summit
Willetts, A. T.
Trenton
Rosenthal, A. L.

NEW MEXICO
Albuquerque
Adler, S.
Mora, F.
Parnall, E.
Fort Bayard
Kinney, R. J.
Los Alamos
Grier, R. S.
Shipman, T. L.
Santa Fe
Lunt, L. K.

NEW YORK
Albany
Haase, F., Jr.
Holt, W. L., Jr.
Thomas, W. A.
Traver, C. A.
Bath
Traver, R. F.
Bayside, Long Island
Wong, J. K.
Brooklyn
Friedman, C. F.
Warren, C. F.
Buffalo
Bakay, L.
Bridge, E. M.
Calkins, E.
Forbes, V.A.-C.
Holland, J. B.
Hummel, L. E.
Klein, D. M.
Klein, E.
Lambert, E. C.
Lowe, C. U.
Osgood, H.
Stewart, J. D.
Canandaigua
Berg, H. W.
Cleverdale
Tefft, R. C., Jr.
Cooperstown
Greenough, J.
McIver, M. A.
Sahler, O. DeP.
Freeport, Long Island
Charash, L. I.
Glen Head, Long Island
Heggie, J. F.
Glens Falls
Batt, R. C.
Hartsdale
Rasmussen, J. S.
Katonah
Thompson, W. A.
Kenmore
Schenk, W. G., Jr.
Kingston
Gorman, M. L. G.
Larchmont
Haralambie, J. Q.
Little Neck, Long Island
Wenig, M.
Manhasset, Long Island
Ayers, W. B.
Nicosia, A. P.
Mechanicville
Ryan, J. P.

Mount Morris
Judd, J. M.
New Rochelle
Houser, G. F.
New York City
Alper, J. M.
Anderson, H. C.
Appel, S. H.
Bowden, L.
Carroll, R. E.
Chamberlain, J. M.
Christenson, W. N.
Cohn, Z. A.
Collins, H. S.
Cu, W. B.
David, J. R.
Dickson, C. C.
Dole, V. P., Jr.
Edelman, G. M.
Ellenberg, J.
Finkenstaedt, J. T.
Fishman, R. A.
Foldes, F. F.
Goldblatt, M. E.
Gomatos, P. J.
Greenhill, M. H.
Heffron, R.
Henley, T. F.
Hiebert, J. M.
Hobson, L. B.
Jamison, R. L.
Kaufman, M. R.
Lake, M.
Lambert, J. T.
Layzer, R. B.
Loeb, J. N.
Loeb, R. F.
Luck, D. J. L.
Mach, B. F.
Maier, J.
Maisel, B. W.
Malcolm, J. A.
Mannik, M.
Metcalf, K. M.
Mixter, G., Jr.
Moore, B. E.
Mote, J. R.
Nellhaus, G.
Packert, R. C.
Patterson, R. H.
Patterson, R. L., Jr.
Peters, J. H.
Quan, S. H. Q.
Rappleye, W. C.
Rasmussen, H.
Roots, L. H.
Rosenbaum, M.
Saunders, G. M.
Squire, L. F.
Surls, J. K.
Tenney, V. A.
Twombly, G. H.
Ulick, S. C.
Vesell, E. S.
Watson, J. W.
Watson, R. F.
Williams, R. C., Jr.
Wilson, P. D.
Wilson, P. D., Jr.
Wohl, H.
Yanagisawa, K.
Youmans, J. B.
North Tarrytown
Rowell, H. G.
Plattsburg
Barton, L. G., Jr.
Poughkeepsie
Bedell, W. C.
Keeley, J. K.
Rochester
Allison, C. R.
Anderson, E. G.
Berg, R. L.
Boller, C.
Clark, M. M.
Crawford, H. B.
Egel, N.
Friedman, S. B.
Gillies, A. J.
Guller, E. I.
Jones, T. B.
Morgan, W. L., Jr.
Morton, J. J.
Moss, A. J.
Radebaugh, J. F., Jr.
States, J. D.
Stewart, J. M.
Saranac Lake
Welles, E. S.
Scarsdale
Hammond, W.
Lipman, M. M.
Syracuse
Dunn, E.
Gardner, L. I.
Gibson, L. E.
Hale, C. H.
Neptune, E. M.
Silverman, A. C.
Straehley, C. J., Jr.
Troy
Talin, J. J.
Tuckahoe
Seed, J. C.
Upton, Long Island
Cotzias, G. C.
Dahl, L. K.
Utica
Case, C. T.
Knapp, R. G., Jr.
Millet, J. B.
Watertown
George, H. L., Jr.
White Plains
Newman, H. A.

NORTH CAROLINA

Asheville
Morrison, R. W.
Biltmore
Freeman, W. T.
Chapel Hill
Barnett, T. B.
Burnett, C. H.
Chamberlin, H. R.
Craige, E.
Gottschalk, C. W.
Heusner, A. P.
Jessner, L.
Lansing, C.
Lassiter, W. E.
McClellan, W. S.
Miller, M. L.
Monroe, J. T., Jr.
Rolett, E. L.
Taylor, I. M.
Young, D. A.
Charlotte
Brenizer, A. G., Jr.
Elliott, J. A., Jr.
Durham
Pearse, R. L.
Peete, W. P. J.
Persons, E. L.
Reeves, R. J.
Schuntermann, P. P.-E.
Wyngaarden, J. B.
Greensboro
Register, J. F.
Spencer, R. E.
Troxler, E. R.
Kannapolis
Collins, D. L., Jr.
Marshall
Ditmore, H. B., Jr.
Raleigh
Manly, I. V.
Rhodes, J. S.
Sandifer, M. G., Jr.
Wooten, E. J. H.
Worth, T. C.
Young, D. A.
Southern Pines
McMillan, R. M.
Tryon
Jackson, H., Jr.
Wilmington
Graham, C. P.
Winston-Salem
Conrad, E.

OHIO

Akron
Kramer, J. G.
Lichty, J. S.
Voke, E. L.
Canton
Scott, M. W., Jr.
Cincinnati
Acheson, G. H.
Block, G. L.
Freiberg, J. A.
Gaffney, T. E.
Gall, E. A.
Newstedt, J. R.
Rosenkrantz, J. G.
Rubinstein, J. H.
Schneider, B.
Seltzer, R. A.
Stenger, R. J.
Cleveland
Badal, D. W.
Bloomfield, D. K.
Clowes, G. H. A., Jr.
Evans, R. R.
Ford, A. B.
Glover, D. M.
Groves, L. K.
Hopkins, R. W.
Jefferies, W. McK.
Kendrick, J. I.
Kennedy, J. H.
Morgan, W. S.
O'Brien, F. W., Jr.
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Placak, J. C., Jr.
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Ryan, K. J.
Shannon, E. W.
Simeone, F. A.
Veazey, P. M.
Weir, D. R.
Columbus
Dawson, C. W.
Haynes, R. C.
Haynes, W. M.

Tetirick, J. E.
Wheeler, W. E.
Dayton
Flook, S. E.
Hochwalt, W. R.
East Cleveland
Baumgartner, D. A., Jr.
North Canton
Shipley, M. S.
Oberlin
Warner, J. H.
Youngstown
Coombs, F. S.
McElroy, W. D.

OKLAHOMA

Altus
Hiett, J. K.
Muskogee
Fite, E. H.
Oklahoma City
Bell, J. P.
Carey, J. M.
Eliel, L. P.
Richardson, W. R.
Stout, H. A.
Tulsa
Steele, B. W., Jr.

OREGON

Camp Sherman
Livingston, W. K.
Medford
Barss, T. P.
Rutter, T.
Portland
Baker, R. L.
Boyden, A. M.
Burns, E. M.
Carter, R. R.
Hall, R. G.
Higgins, R. B.
Ray, L. F.
Rockey, E. W.
Saslow, G.
Spangler, P. E.
Sutherland, D. W.
Thatcher, B. van H.
Whittemore, J. P.

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Ardmore
Bora, F. W., Jr.
Sampson, D. A.
Bangor
Cascario, N., Jr.
Bethlehem
Leister, C. M.
Drexel Hill
Weinberg, R. A.
Easton
Horwitz, W. H.
Fort Washington
Boger, W. P.
Harrisburg
Berkheimer, G. A.
Ivyland
Michie, C. R.
Johnsville
Ragland, S., Jr.
Latrobe
Moran, T. W., Jr.
Media
Kitts, A. W.
Merion Station
Murphy, G. L.
Philadelphia
Brent, R. L.
Dohan, F. C.
Fisher, M. S.
Goeringer, C. F.
Heath, R. D.
Ingalls, T. H.
Klaus, H.
Ludwig, G. D.
McCann, S. M.
Mancall, E. L.
Mendelsohn, M. L.
Michie, A. J.
Montgomery, H.
Nicholson, J. T.
Normann, N.
Perrin, G. M.
Price, S. E., Jr.
Richards, R. S.
Roth, J. L. d'A.
Rovit, R. L.
Schnabel, T. G., Jr.
Ship, I. I.
Starr, I.
Stokes, J., Jr.
Stunkard, A. J.
Wood, H. P.
Zacks, S. I.
Zervas, N. T.
Pittsburgh
Clark, D. A.
Dwyer, J. H.
Fennell, R. H., Jr.
Ferguson, A. B., Jr.
Field, J. B.
Leighton, J.
McLaughlin, W. B.
Tyson, R. G.
Reading
Leinbach, T. C.
Morrissey, E. J.
Swarthmore
Ferguson, J. J., Jr.

RHODE ISLAND

Barrington
Peabody, C. W.
Edgewood
Aaronson, L. D.
Pawtucket
Hogan, J. F.
Providence
Cotter, W. C.
Cutts, F. B.
Dowling, J. L., Jr.
Fallon, J. T.
Hamlin, H.
Liffmann, K. E.
Littlefield, J. W.
Pitts, J. D.
Robinson, M.
Sargent, F. B.
Sawyer, C. S.
Sinclair, E. B.
Strom, J. O.
Troppoli, D. V.

SOUTH CAROLINA

Charleston
Boone, J. A.
Paul, J. R., Jr.
Summerall, C. P., III
Talbert, O. R.
Columbia
Theus, W. W.
Greenville
Brannon, L. C.

TENNESSEE

Chattanooga
Ballard, F. B.
Kingsport
Maloy, J. K.
Knoxville
Chernoff, A. I.
Stall, B. G., III
Memphis
Livermore, G. R., Jr.
Nobles, E. R., Jr.
Rosenberg, E. W.
Shaw, J. L.
Stern, N. S.
Nashville
Buchanan, R. N., Jr.
Cobb, C. A., Jr.
Lee, J. M.
Newman, E. V.
Smith, M. L.
Oak Ridge
Ruley, H. B.

TEXAS

Austin
Kreisle, J. E.
Winkler, J. J.
Beaumont
Harting, D.
Hinshaw, A. J.
Dallas
Binion, J. T.
Carter, G. B.
Coggeshall, H. C.
Giles, R. B., Jr.
Hodges, T. W.
Jenkins, M. T.
Martin, C. L.
Martin, J. A.
Moore, S. H., Jr.
Rose, P. F.
Rosser, C.
Schneiderman, R. N.
Siperstein, M. D.
Spence, H. M.
Thompson, J. E.
Urschel, H. C., Jr.
Wheeler, C. G.
Wheeler, J. T.
Williams, O. B., Jr.
Young, J. G.
Denison
Freeman, D. W.
Fort Worth
Flood, W. E.
Key, R. E.
Rutledge, R. H.
Houston
Crawford, E. S.
David, S. D.
Eppright, R. H.
Keats, A. S.
Owen, W. R.
Smith, E. T.
McAllen
Evans, S. S.
San Antonio
Miller, R. B.
Thompson, M. S.
Wichita Falls
Tanner, J. W.

UTAH

Ogden
Keyes, G. H.
Perkins, A.
Salt Lake City
Christensen, W. R.
Clark, L. D.
Hatch, F. F.
Haut, A.
Hebertson, W. M.
Nelson, R. M.
Nielsen, T. W.
Young, C.

VERMONT

Bennington
Giddings, W. P.
Brattleboro
Sharpe, J. D.
Tompkins, J. B.
Burlington
Bell, J. F.
Donaghy, R. M. P.
Kuhlmann, R. F.
Mazuzan, J. E., Jr.
Smith, R. P.
Soule, A. B.
Enosburg Falls
O'Shea, C. M.
Montpelier
Buttles, R. V.
Peacham
Rogers, W. A.
Townshend
Folsom, H. F.
Waterbury
Chittick, R. A.
White River Junction
Anthonisen, N. L.
Crandell, W. B.
Woodstock
Williams, C. A.

VIRGINIA

Alexandria
Owyang, P.
Arlington
Collins, R.
Detwiler, R. H.
Ormandy, L.
Bristol
Gammon, W. M.
Charlottesville
Parson, W.
Swineford, O., Jr.
Wood, J. E., Jr.
Fairfax
Waring, E. S.
Fort Belvoir
Hunt, R. T. N.
Irvington
Wescott, H. H.
Mathews
MacDonald, R. F.
Norfolk
Exley, M. M.
Richmond
Adams, R. A.
Blades, J. F.
Carmichael, M. W.
James, G. W., III
Jones, B. B.
Jordan, W. R.
Mannick, J. A.
Pinckney, M. M.
Sutphin, A. K.
Thompson, W. T., Jr.
Tucker, J. T.
Ulmer, J. L.
Roanoke
Glendy, M. M.
Glendy, R. E.
Walke, J. T.
Salem
Wood, B. S.
Wytheville
Schuler, J. D.

WASHINGTON

Bellevue
Milam, D. F., Jr.
Teel, C. E.
Bellingham
Watts, A. B.
Mercer Island
Skinner, A. L.
Olympia
Jones, G. E.
Seattle
Bell, J. W.
Brown, N. K.
Brownsberger, C. N.
Coe, R. C.
Compton, D. W.
Crystal, D. K.
Garrigues, H. B.
Gaston, L. W.
Lawrence, G. H.
MacMahon, C. E.
Odland, G. F.
Peterson, H. de C.
Polak, A.
Rutherford, R. N.
Shurtleff, D. B.
Stewart, J. E.
Volwiler, W.
Spokane
Johnston, E. V.
Kleaveland, R. N.
Walla Walla
Brooks, P. T.
Gilbert, A. C.
Yakima
Mathieu, T. J.
Patterson, H. E.

WEST VIRGINIA

Beckley
Klingensmith, W. E.
Wilcox, R. E.
Charleston
Anderson, R. L.
Hills, H. M., Jr.
Revercomb, P. H.
Stewart, W. C.
Clarksburg
Farrell, M. E.
Fairmont
Shaffer, F. G.
Wang, S. K.
Martinsburg
Cheer, S. N.
Morgantown
Currie, R. A.
Shaffer, H. A.
Wheeling
Duffy, R. J.
Weiler, H. G.

WISCONSIN

LaCrosse
Gundersen, A. L.
Gundersen, S. B., Jr.
Gundersen, T. E.
Hayden, J. W.
Murphy, G. B., Jr.
Tompkins, D. G.
Madison
Albright, E. C.
Gordon, E. S.
Greeley, H. P.
Hopkins, C. E.
Javid, M.
Kiely, B.
McClung, J. L.
Marshfield
Pederson, D. P.
Milwaukee
Barrow, D. W.
Berlow, S.
Conley, J. E.
Holbrook, A. A.
Kerrigan, G. A.
Lazarus, H. R.
Schmidt, R. A.
Schneider, C. C.
Schwartz, A. B.

AUSTRALIA

Melbourne
Colquhoun, J. B.
Medindie
McCoy, W. T.
Sydney
Trethowan, W. H.

BERMUDA

Pembroke
Walker, E.

BRASIL

Rio de Janeiro
Albuquerque, P. F.
São Paulo
Barretto, O. deF.

CANADA

Aylmer, Que.
McKay, W. W.
Barrie
Colpitts, G. E.
Calgary, Alb.
Walker, R. H.
Charlottetown, P.E.I.
MacMillan, H. A.
Edmonton, Alb.
Huckell, J. R.
Halifax, N. S.
Marshall, C. S.
Hamilton, Ont.
Detwiler, R. C.
Kingston, Ont.
Melvin, W. J. S.
Sloane, R. B.
Kitchener, Ont.
Tallon, J. B.
Lancaster, N. B.
Gregory, R. A.
Langley, Brit. Col.
Borden, R. P.
London, Ont.
Cameron, H. S.

Sober, S.
Londonderry, N. S.
MacKinnon, R.
Montreal, Que.
Aranas, A. L.
Davanloo, H.
Greenwood, F. A. H.
Johnson, L. G.
Kahn, D. S.
Lipowski, Z. J.
McConnell, F.
MacDermot, P. N.
Robillard, F. R.
Robillard, R. L.
Shannon, J. G.
Shugar, J. L.
Thurlbeck, W. M.
Wilson, W. E.
North Sudbury, Ont.
Field, P.
Olds, Alb.
Burland, G. R.
Toronto, Ont.
Ball, R. E.
Gardiner, W. J.
Harris, W. R.
Holmes, R. B.
Lowrey, S. R.
Ritchie, A. C.
Victoria, Brit. Col.
Duxbury, J. H.
Winnipeg, Man.
Adamson, G. L.

CHILE
Santiago
Williamson-Lefort, L.

COLOMBIA
Bogotá
Salamanca, J. J.

DENMARK
Copenhagen
Andersen, E. W.
Brandstrup, N. E.
Ibsen, B.
Probst, J.-H.

ENGLAND
Carshalton
Mangoni, A.
London
Bohrer, S. P.
Dunn, W. L.
Haber, E.
Leigh, A. D.
McGugan, A. D.
McIlroy, W. J.
Sahay, B. M.
Tow, P. M.
Menston
Gore, C. P.
Oxford
Waud, B. E.

FRANCE
Lyon
Michel, A. J. D.
Neuilly-sur-Seine
Kernan, R. D.

GERMANY
München
Harder, H. J.
Hüppe, J. R.

GREECE
Athens
Arzimanoglu, A. A.
Zaoussis, A. L.
Thessalonica
Papadopoulos, D. A.

GUATEMALA
Guatemala City
Fuchs, P.
Herrera, R. E.
Sosa, D.
Toriello, J.

HAITI
St. Marc
May, H. L.

HOLLAND
Amsterdam
Donner, R.

ICELAND
Reykjavik
Kristjansson, H.

INDIA
Bombay
Rebello, D. J. A.
Lucknow, U. P.
Singh, M. M.
Ludhiana
Wysham, D. N.

IRAN
Resht
Samiy, H. E.
Shiraz
Saidi, F.

ISRAEL
Petah Tiqva
Laron, Z.

LEBANON
Beirut
Abi-Torbey, K.
Lichtenwalner, C. S.
Mnaymneh, W. A.
Wilson, J. L.

MARSHALL ISLANDS
Majuro
Macdonald, H. E., Jr.

NORTHERN IRELAND
Belfast
Gibson, J. G.

NORWAY
Oslo
Gundersen, A. E.
Lund, I.
Stovner, J.

PERU
Lima
de Mola, L. L.

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Manila
Canlas, B. D., Jr.
Rosales, R. K.
Quezon City
Bautista, F. A.

SAUDI ARABIA
Dhahran
Howard, F. H.

SOUTH AFRICA
Johannesburg
Braudo, J. L.
Gamsu, D.

SWITZERLAND
Basel
Hügin, W.
Pietra, G. G.
Geneva
Müller, A. F.
Zurich
Bally, P. R.

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"I give to The Massachusetts General Hospital, a corporation organized under the laws of Massachusetts and situated in Boston, Massachusetts, ...($)."

Money given in this way may be used by the Hospital for any purpose within the scope of its powers. Both principal and income may be so used.

B. *A Legacy Restricted as to Principal but Not Restricted as to Income*

"I give to The Massachusetts General Hospital, a corporation organized under the laws of Massachusetts and situated in Boston, Massachusetts, ...($). The principal of this gift shall be held and may be mingled with other funds of the Hospital for investment. The Hospital may expend the income for any purpose within the scope of its powers. (The following sentence is optional.) This gift is made in memory of ..... and shall be known as the ..... Fund."

Money given in this way establishes a permanent fund.

C. *A Legacy Intended for a Special Purpose*

Where either principal or income of a bequest is to be restricted to some special purpose of the Hospital, it is suggested that the testator contact the Treasurer's Office, 45 Milk Street, Boston.

DALTON SCHOLARSHIPS

Scholarships will be awarded to the candidates recommended by the General Executive Committee of the Massachusetts General Hospital and confirmed by the Trustees.

The holders of these Scholarships are required to do original work in subjects to be designated.

For particulars apply to the General Director.

MASSACHUSETTS GENERAL HOSPITAL
Fruit Street, Boston

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WARREN TRIENNIAL PRIZE

The Warren Triennial Prize was founded by the late Dr. J. Mason Warren in memory of his father, and his will provides that the accumulated interest of the fund shall be awarded every three years to the author of the best dissertation, considered worthy of a premium, in some subject in Physiology, Surgery, or Pathological Anatomy, the arbitrators being the General Executive Committee of the Massachusetts General Hospital.

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